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# PROJECTIONS AND PLANNING INFORMATION



## Stockton-Lodi

Metropolitan Statistical Area  
(San Joaquin County)

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# **PROJECTIONS AND PLANNING INFORMATION**

## **STOCKTON-LODI METROPOLITAN STATISTICAL AREA (SAN JOAQUIN COUNTY)**

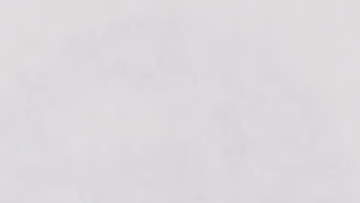
**Mailing Address:**

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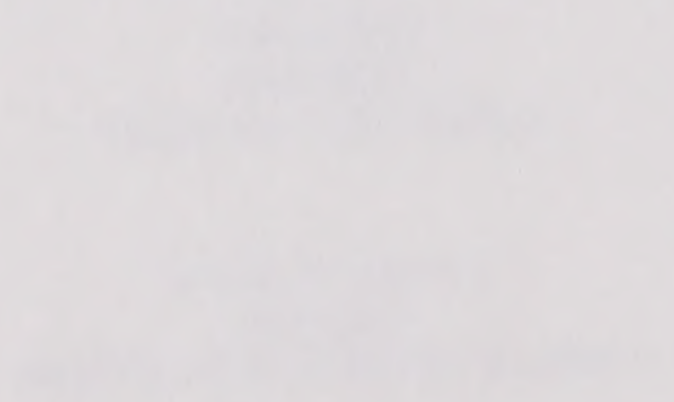
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Call Cynthia Solorio, (209) 941-6550  
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State of California  
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# PROJECTIONS AND PLANNING INFORMATION



## STOCK 1001 METROPOLITAN STATISTICAL AREA (SAN JOAQUIN COUNTY)



Stock 1001  
Metropolitan Statistical Area  
San Joaquin County, California  
The map shows the area's extent, major roads, and surrounding regions. The area is shaded in a light gray color, and the surrounding areas are in white. The map is oriented with North at the top.





## **LABOR MARKET INFORMATION DIVISION**

### **MISSION**

WE PROMOTE CALIFORNIA'S ECONOMIC HEALTH BY PROVIDING INFORMATION TO HELP PEOPLE UNDERSTAND CALIFORNIA'S ECONOMY AND MAKE INFORMED LABOR MARKET CHOICES.

### **VISION**

WE ARE THE LABOR MARKET INFORMATION SOURCE FOR CALIFORNIA AND A NATIONAL LEADER IN LABOR MARKET INFORMATION. WE ARE AN INNOVATIVE, CREATIVE AND EXPERT CONSULTING ORGANIZATION; AN ECONOMIC DEVELOPMENT AND RESEARCH PARTNER; AND A PRESTIGIOUS AND HIGHLY CREDIBLE ORGANIZATION.



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# *Projections & Planning Information*

## **Module A:**

# **Introduction**





# San Joaquin County

As the northernmost county in California's great Central Valley, San Joaquin County bridges the areas of northern and central California. The county's unique geographical position places it within a dynamic growth corridor ideally situated for business and industry.

2000 Census data records San Joaquin's population at over 560,000, an increase of almost 83,000 residents since the 1990 Census. The city of Stockton is the largest in the county with a population of 243,700, a gain of 15.6 percent. Tracy, the second-largest city, grew by 23,300 residents, or 69.6 percent. By the year 2020, San Joaquin's total population is projected to be 887,600, a 58 percent increase over current figures.

San Joaquin County covers more than 1,400 square miles. Its territory stretches over 75 miles from north to south, and nearly 65 miles from east to west. Conveniently nestled between the Sierra Nevada Mountains and the San Francisco Bay Area, the valley is crisscrossed with rivers and sloughs, forming what is known as the San Joaquin Delta system. The Sierra foothills to the east of the county and Mount Boardman (of the Diablo

Mountain range) to the southwest are exceptions to the general topography of rich, flat farmland. The rainy winters and dry, hot summers make for a long growing season, which helps make San Joaquin County one of California's most productive agricultural areas.

San Joaquin also has extensive transportation facilities. The Port of Stockton serves ships from around the world via the Stockton Channel to San Francisco Bay. Ocean vessels regularly traverse the 75-nautical mile voyage from the Golden Gate Bridge into Stockton. Storage capacity at the Port includes more than 2.7 million square feet of covered warehouse space and one million tons of outdoor storage space. Interstate highways connecting the county, both east-west and north-south, provide excellent access and same-day delivery service to major California urban markets. With five railroads, an airport that offers both passenger and freight transport, and the Port of Stockton, San Joaquin County is a vital, central staging and meeting place for the state.

# San Joaquin County

## (Stockton-Lodi Metropolitan Statistical Area)

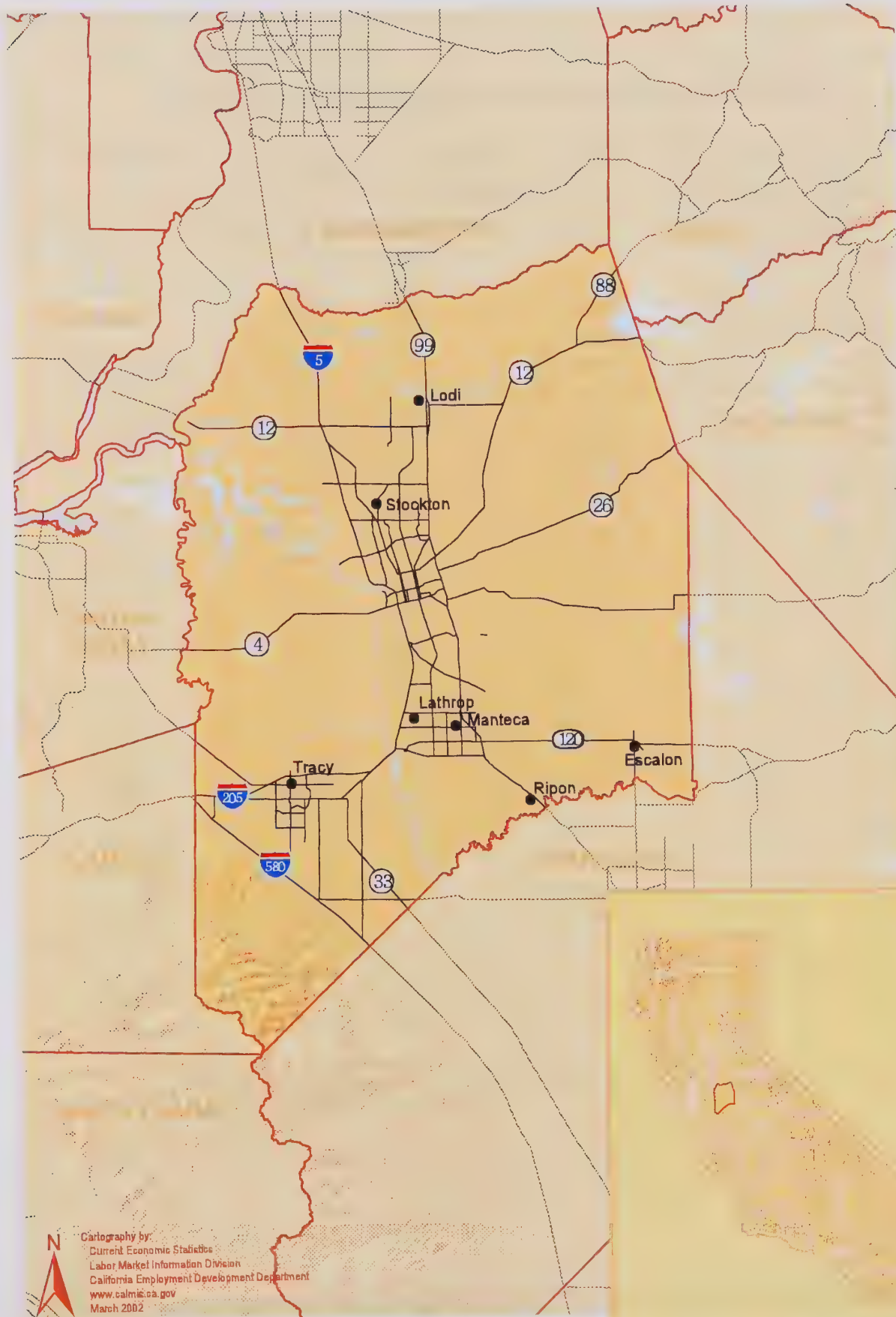
Population of the County and Selected Cities  
1980, 1990, 2000, and 2001

Political Subdivisions	1980 (a)	1990 (b)	2000 (c)	2001 (d)	Percent Change	
					1990 to 2000	2000 to 2001
<b>Total</b>	<b>347,342</b>	<b>480,628</b>	<b>537,700</b>	<b>545,200</b>	<b>11.9%</b>	<b>1.4%</b>
Escalon	3,127	4,437	5,375	5,525	21.1%	2.8%
Lathrop	4,112	6,841	8,975	9,275	31.2%	3.3%
Lodi	35,221	51,874	55,000	55,700	6.0%	1.3%
Manteca	24,925	40,773	46,150	47,100	13.2%	2.1%
Ripon	3,509	7,455	9,300	9,625	24.7%	3.5%
Stockton	148,283	210,943	237,500	241,100	12.6%	1.5%
Tracy	18,428	33,558	46,250	47,550	37.8%	2.8%
Balance of County	109,737	124,747	129,000	129,400	3.4%	0.3%

- (a) Census of Population, April 1, 1980.
  - (b) Census of Population, April 1, 1990.
  - (c) Census of Population, April 1, 2000.
  - (d) California Department of Finance revised estimates for January 1, 2001.
- Parts may not add to total due to independent rounding.



# San Joaquin County





## Population Estimates for California and Counties

	January		Percent Change		January		Percent Change
	2000	2001			2000	2001	
California	34,207,000	34,818,000	1.8%	Orange	2,867,700	2,925,700	2.0%
Alameda	1,455,300	1,479,100	1.6%	Placer	248,700	257,500	3.5%
Alpine	1,200	1,220	1.7%	Plumas	21,000	21,100	0.5%
Amador	35,250	35,400	0.4%	Riverside	1,557,800	1,609,400	3.3%
Butte	204,600	205,800	0.6%	Sacramento	1,230,700	1,258,600	2.3%
Calaveras	40,950	41,100	0.4%	San Benito	53,800	55,200	2.6%
Colusa	19,050	19,200	0.8%	San Bernardino	1,726,800	1,764,300	2.2%
Contra Costa	955,900	972,100	1.7%	San Diego	2,835,400	2,883,600	1.7%
Del Norte	28,050	28,100	0.2%	San Francisco	781,900	793,700	1.5%
El Dorado	157,200	159,700	1.6%	San Joaquin	568,300	583,700	2.7%
Fresno	810,300	823,900	1.7%	San Luis Obispo	248,200	252,100	1.6%
Glenn	26,800	26,800	0.0%	San Mateo	713,900	720,100	0.9%
Humboldt	127,400	127,800	0.3%	Santa Barbara	403,500	408,900	1.3%
Imperial	146,600	150,900	2.9%	Santa Clara	1,698,800	1,723,700	1.5%
Inyo	18,250	18,150	-0.5%	Santa Cruz	258,000	259,800	0.7%
Kern	671,300	685,800	2.2%	Shasta	164,300	165,700	0.9%
Kings	132,100	136,100	3.0%	Sierra	3,580	3,560	-0.6%
Lake	58,700	59,300	1.0%	Siskiyou	44,750	44,300	-1.0%
Lassen	34,850	35,900	3.0%	Solano	396,900	403,400	1.6%
Los Angeles	9,643,100	9,802,800	1.7%	Sonoma	461,700	468,800	1.5%
Madera	125,800	129,400	2.9%	Stanislaus	451,000	459,900	2.0%
Marin	248,700	250,400	0.7%	Sutter	79,700	80,900	1.5%
Mariposa	17,200	17,200	0.0%	Tehama	56,400	56,800	0.7%
Mendocino	87,100	87,300	0.2%	Trinity	13,150	13,050	-0.8%
Merced	212,800	216,700	1.8%	Tulare	373,100	377,500	1.2%
Modoc	9,550	9,600	0.5%	Tuolumne	54,800	55,200	0.7%
Mono	12,950	13,350	3.1%	Ventura	759,400	773,500	1.9%
Monterey	405,200	410,800	1.4%	Yolo	169,300	173,500	2.5%
Napa	125,100	126,200	0.9%	Yuba	60,900	60,800	-0.2%
Nevada	92,300	94,000	1.8%				

SOURCE: State of California, Department of Finance, Population Estimates for California Cities and Counties.  
Report E-1. Sacramento, California, May 2001.



# O\*NET

## The Occupational Information Network

The *Occupational Information Network* (O\*NET) is the U.S. Department of Labor's recent replacement to the long-standing Dictionary of Occupational Titles (DOT). First released in 1998 and made available as an Internet application in 2001, O\*NET was created for the general public to provide broad access to occupational information.

The O\*NET system includes information on skills, abilities, knowledge, work activities, and interests associated with occupations. This information can be used to facilitate career exploration, vocational counseling, and a variety of human resources functions, such as developing job orders and position descriptions and aligning training with current workplace needs.

The gathering and classification of information was done with many different users in mind, including human resource personnel, industry analysts, students, rehabilitation counselors, workforce researchers, managers, displaced workers and more. Information in O\*NET is available for over 950 occupations. Each occupational title and code is based on the most current version of the Standard Occupational Classification system.

O\*NET OnLine offers users the chance to:

- Find occupations to explore, either by skill requirements or using key words
- Search for occupations that use their skills
- Look at related occupations with similar skills requirements
- View and print snapshot reports listing top tasks and skills requirements for an occupation
- View occupation details

- Use crosswalks to find occupations using titles from other classification systems
- Connect to other on-line career information resources to see current wage and outlook information
- Access comprehensive information on-line

The information currently available through O\*NET was developed by job analysts; however, workers and employers themselves, describing what they do and the necessary skills, will contribute to data and ratings beginning in the year 2003.

The U.S. Department of Labor's Employment and Training Administration looked to both public and private entities in the development of O\*NET. State-based Occupational Analysis Field Centers and Assessment Research and Development Program Centers provided regional support. Private sector firms are also assisting with the implementation of the project.

If it is to be current, comprehensive and inclusive, the O\*NET System will require a continuous process of database building. DOL welcomes the participation of employers or representatives of organizations that can contribute occupational information. The massive and growing O\*NET data collection and database will be maintained by the newly established National O\*NET Consortium.

For further information contact O\*NET:

O\*NET Project  
DOL Office of Policy and Research  
200 Constitution Ave., NW, MS N5637  
Washington, DC 20210  
(202) 693-3660

<http://www.doleta.gov/programs/onet/>

# Standard Occupational Classification (SOC)

The Standard Occupational Classification (SOC) 1998 System was developed in response to a growing need for a universal occupational classification system—a system which would allow government agencies and private industry to produce comparable data. The SOC system was designed to cover all occupations in which work is performed for pay or profit and will be used by all federal agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data.

## *General Characteristics of the Revised SOC*

This system classifies workers at four levels of aggregation:

- major group
- minor group
- broad occupation
- detailed occupation

All workers are classified into one of over 820 occupations, according to their occupational definition. To facilitate classification, all occupations are clustered into one of 23 major groups. Within these major groups, there are 96 minor groups, and 449 broad occupations. Each broad occupation includes detailed occupation(s) requiring similar job duties, skills, education, or experience.

The following example shows the hierarchical structure of the 1998 SOC:

19-0000 Life, physical, and social science occupations (*major group*)

19-000 Life scientists ( *minor group*)

19-1020 Biological scientists (*broad occupation*)

19-1021 Biochemists and biophysicists (*detailed occupation*)

19-1022 Microbiologists (*detailed occupation*)

19-1023 Zoologists and wildlife biologists (*detailed occupation*)

19-1029 Biological scientists, all other (*detailed occupation*)

Data collected by the 2000 Census of Population will be coded to the 1998 SOC; the Department of Labor's Occupational Information Network (O\*NET), adheres to the 1998 SOC. In fact, all federal government agencies that collect occupational data are expected to adopt the 1998 SOC over the next few years.

Additional information, updated revision plans, and information on the implementation of the 1998 SOC are available at the Bureau of Labor Statistics (BLS) Internet site:

**<http://stats.bls.gov/soc>**



# Job Services for Employers and Job Seekers

The Employment Development Department (EDD) is the largest source of personnel recruitment in California. There is no fee to employers or job seekers. Employers may wish to place a job order with EDD or ask about other available services. Job seekers may wish to complete an application to be matched against employer job orders or to request other assistance in finding a job or training.

The **EDD Job Service** is the public employment service for the State of California. From locations in over 200 communities, the EDD Job Service program serves the State's 900,000 employers and the one million or more job seekers who use the services each year.

The EDD Job Service is authorized by the federal Wagner-Peyser Act, as amended by the Workforce Investment Act of 1998. The EDD plans and delivers the services in California in partnership with other employment and training organizations in the One-Stop Career Centers created by the Workforce Investment Act of 1998. The EDD's Job Service offers a variety of services that bring employers with job openings and qualified job seekers together.

**CalJOBS** – California's Internet system for linking employer job listings and job seeker resumes. CalJOBS is available at EDD Job Service locations, One-Stop Career Centers, and anywhere there is Internet access.

Special features of CalJOBS include:

- No fees
- Wide variety of job listings and job seekers
- Easy access:

<http://www.caljobs.ca.gov>

**Employer Advisory Councils** work closely with Job Service to sponsor employer seminars, job fairs and other events which provide information and guidance for job seekers and local business.

## Additional Services to Job Seekers

- Job search workshops
- Referral to partner agencies that provide other employment related services, including training.

## Additional Services to Employers

- Reemployment services for dislocated workers.
- Current labor market information.
- Focused recruitment campaigns.
- Locally coordinated workforce preparation services.

If you are interested in any of the above services, or would like information about the location of the Job Service office nearest you, contact the call center listed below.

Bay Area	415-749-7503
Los Angeles	213-833-7900
Orange	714-518-2315
Riverside	909-955-2200
Sacramento	916-227-0301
San Diego	619-266-4200



# California's Labor Market and Occupational Information is only a click away ...

Use your computer to view and/or download important economic data directly from us —  
**24 hours a day, seven days a week!**

**<http://www.calmis.ca.gov>**

## **Data available on-line:**

*Agriculture* Statewide and county employment and earnings data for selected crops and industries.

*Demographics* Statewide and county census data, population tables, income statistics, and data for nondiscrimination programs.

*Industry* Current and historical employment data, projections of employment, hours and earnings, and size of firm data.

*Labor Force* Monthly, historical, and annual average labor force data by county, MSA, and statewide; labor market conditions in California, and employment characteristics.

*Resources* Contact lists for area consultants, local partners for the California Cooperative Occupational Information System (CCOIS), publications available, and resources for additional data.

*Occupations* Projections of employment by occupation, the California License Handbook, the California Occupational Guides, the Occupational Guide Wage Supplement and the Occupational Outlook Reports.

## **Visit our interactive on-line sites:**

*Labor Market Information for Economic Development (LMI4ED)* Provides industry trends and occupational information in an interactive application. Users can search for data by county and industry or occupation, select individual items for display, and produce customized tables. LMI4ED is available at:

**<http://www.lmi4ed.ca.gov>**

*California Career & Training Information System (CaCTIS)* Provides job seekers and career development professionals easy access to occupational wages and outlook, training information and job openings. CaCTIS is available at:

**<http://www.cactis.ca.gov>**

**Publications and Information:** Publications Desk (916) 262-2162

**Internet Assistance:** (916) 262-2213 or (916) 262-2340

# Related Websites

## Local Government

CA local government agencies

**[http://www.ceres.ca.gov/geo\\_area/counties](http://www.ceres.ca.gov/geo_area/counties)**

Sacramento Area Commerce and Trade Organization

**<http://www.sactoedc.org>**

## State Government

California's Home Page — Links to all state government agencies

**<http://www.ca.gov>**

EDD Home Page

**<http://www.edd.ca.gov>**

California Career Resource Network (CalCRN) — CalCRN is an interagency committee created to promote the development and use of occupational and career information.

**<http://www.soicc.ca.gov>**

California Department of Finance (DOF) — DOF provides demographic information, population estimates, and cost of living information.

**<http://www.dof.ca.gov>**

California One-Stop Career Centers

**<http://www.sjtcc.ca.gov/sjtccweb/one-stop>**

California School To Career (STC) — School-to-Career is a method of teaching that prepares students for college and the job market by integrating academic studies with real world applications and work based learning experiences.

**<http://www.stc.ca.gov>**

California's Job Bank

**<http://www.caljobs.ca.gov>**

Department Of Industrial Relations (DIR) — Worker's Compensation, labor law, and statistics.

**<http://www.dir.ca.gov>**

## Federal Government

Federal Department of Labor, Bureau of Labor Statistics

**<http://stats.bls.gov>**

Bureau of the Census

**<http://www.census.gov>**

Library of Congress

**<http://lcweb.loc.gov>**

America's Job Bank

**<http://www.ajb.dni.us>**

# *Projections & Planning Information*

## **Module B:**

# **Labor Force**





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## Module B: LABOR FORCE

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1987–2001 Monthly Civilian Labor Force Data .....	B-3





# Labor Force

Labor Force statistics are derived from the monthly Current Population Survey (CPS) of households conducted by the Bureau of Census for the Bureau of Labor Statistics (BLS). This monthly survey collects demographic data including employment and unemployment status for all states. The CPS sample consists of over 60,000 households nationwide with over 4,600 households in California. These data represent counts of individuals by place of residence rather than a count of jobs.

County-level labor force data, with the exception of Los Angeles County, are derived using a variety of information including CPS information, Wage and Salary Employment, and unemployment claims data for local areas.

*Civilian Labor Force* includes all non-institutional civilians, 16 years of age and older, who are working or looking for work: the sum of employed and unemployed.

*Civilian Employment* includes all individuals who are working, either for a wage or salary, self-employed, working at least one hour for pay or profit each week, or working at least 15 unpaid hours in a family business. Those who are on vacation, other kinds of leave, or involved in a labor dispute, are also counted as employed (whether or not they were paid for the time-off).

*Civilian Unemployment* includes those individuals who are not working but are able, available and looking for work.

*Unemployment Rate* is the number of unemployed individuals expressed as a percentage of the civilian labor force.

## Suggestions for Users

Regular users of labor force data include grant writers, economic development professionals, government agencies and local social service agencies. This section provides suggestions for the first time user, the job hunter and the occasional user.

- County labor force data are not seasonally adjusted. It is important to request "not seasonally adjusted" labor force data for the state and the nation to make a valid comparison.
- The employment and unemployment figures tend to vary from month to month for many reasons. As a result, the annual average figures, over time, tend to be a better estimate of the labor force trends within the area.
- The unemployment rate may not reflect the economic conditions in all areas of the county. The labor market can vary greatly in different industries, in different occupations, and in different parts of the county.
- Month-to-month labor force data are a useful indicator of the seasonal changes in the area, such as outdoor activities, (i.e. construction), holiday hiring, school schedules, and agricultural patterns.
- California labor force data for years prior to 1990 are not directly comparable with data for 1990 and later years due to the introduction of the 1990 Census population controls.

You may want to consult the industry and occupational modules of this report for more information on economic conditions in the county, or speak with the Labor Market Information Division's area consultants who are located in the community and are knowledgeable about the economic activities in their counties.

**Additional Sources of Information:**

- Bureau of Labor Statistics,  
Occupational Outlook Handbook
- California Association for Local  
Economic Development (CALED)
- Local Chambers of Commerce
- Local Economic Development  
Organizations
- Newspapers

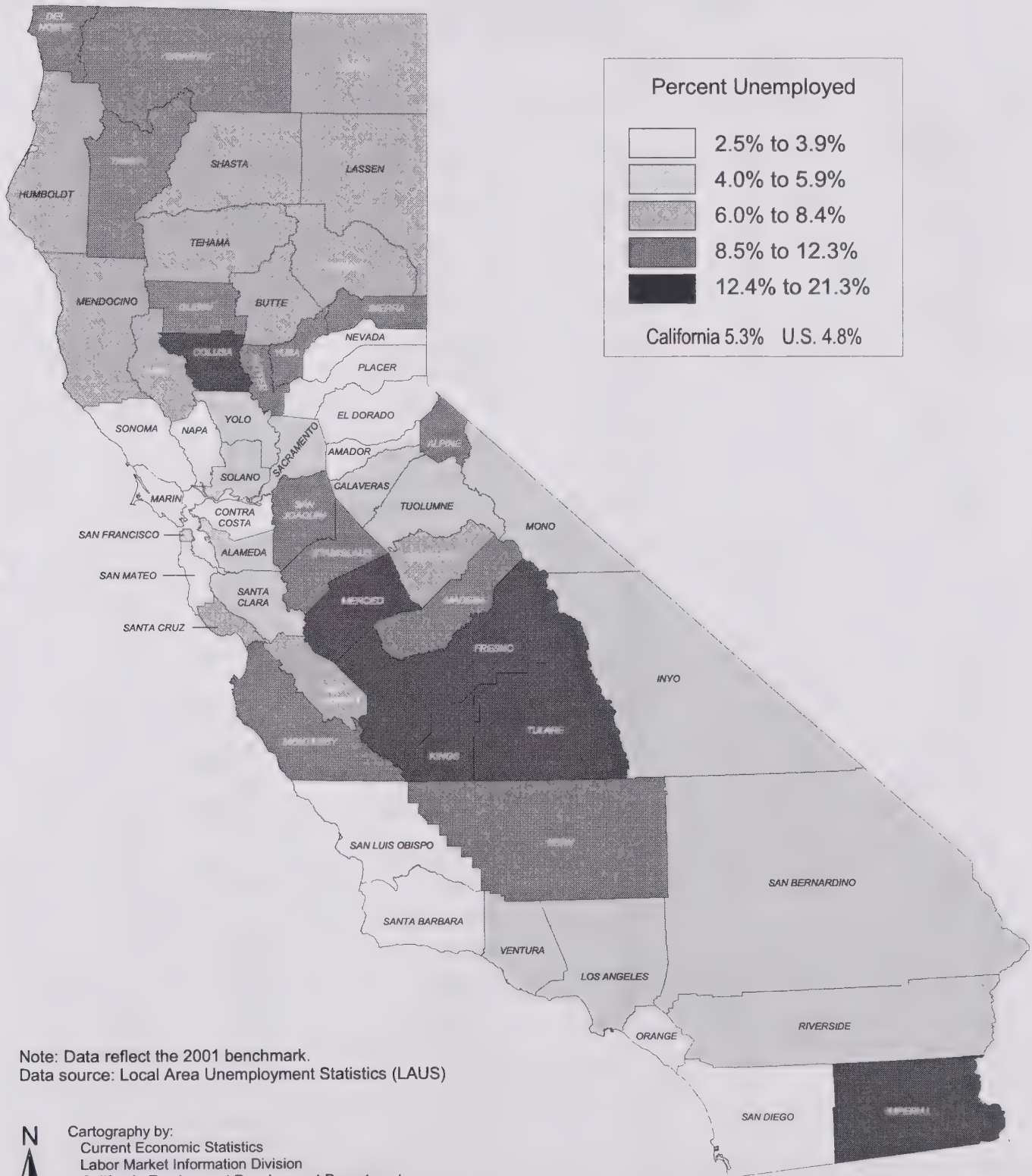
Electronic access to current data is available through the Employment Development Department's Internet address at:

**<http://www.calmis.ca.gov>**

For additional information or technical assistance with the Labor Market Information Division's Internet website, please call (916) 262-2162 and select option #2. To obtain contact information for local labor market consultants or to obtain current monthly data, customers may also call (916) 262-2162 or FAX (916) 262-2443.

# County Unemployment Rates

## 2001 Annual Averages



Note: Data reflect the 2001 benchmark.  
Data source: Local Area Unemployment Statistics (LAUS)



Cartography by:  
Current Economic Statistics  
Labor Market Information Division  
California Employment Development Department  
[www.calmis.ca.gov](http://www.calmis.ca.gov)  
April 2002



# United States, California and Counties

## Unemployment Rates

### 2000, 2001 Annual Averages\*

	2000	2001		2000	2001
<b>U.S.</b>	4.0	4.8			
<b>CALIFORNIA</b>	4.9	5.3			
Alameda	3.0	4.5	Orange	2.5	3.0
Alpine	8.2	9.0	Placer	3.2	3.6
Amador	8.4	3.9	Plumas	8.3	8.4
Butte	4.4	7.0	Riverside	5.5	5.2
Calaveras	7.0	5.9	Sacramento	4.2	4.2
Colusa	6.7	17.6	San Benito	7.8	8.2
Contra Costa	17.5	3.3	San Bernardino	4.8	4.8
Del Norte	2.7	8.7	San Diego	3.0	3.2
El Dorado	3.9	3.8	San Francisco	2.8	5.2
Fresno	14.3	13.7	San Joaquin	8.8	8.7
Glenn	11.9	11.2	San Luis Obispo	3.0	2.8
Humboldt	6.3	6.1	San Mateo	1.6	2.8
Imperial	26.3	21.3	Santa Barbara	3.7	3.5
Inyo	5.6	4.9	Santa Clara	2.0	4.5
Kern	11.3	10.5	Santa Cruz	5.6	6.1
Kings	14.0	13.8	Shasta	6.9	6.7
Lake	8.0	7.3	Sierra	7.7	9.7
Lassen	6.9	6.8	Siskiyou	9.5	9.4
Los Angeles	5.4	5.7	Solano	4.2	4.1
Madera	11.8	12.1	Sonoma	2.6	2.9
Marin	1.7	2.5	Stanislaus	10.4	10.2
Mariposa	7.8	6.3	Sutter	13.0	12.3
Mendocino	6.6	6.6	Tehama	6.9	6.4
Merced	14.4	14.0	Trinity	12.4	10.9
Modoc	8.3	7.0	Tulare	15.4	15.4
Mono	5.6	5.2	Tuolumne	6.0	5.5
Monterey	9.7	9.3	Ventura	4.5	4.5
Napa	3.2	3.3	Yolo	4.3	4.2
Nevada	3.6	3.7	Yuba	11.8	11.7

\*March 2001 Benchmark figures.

**San Joaquin County**  
**(Stockton-Lodi Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**  
**Annual Averages 1987–2001**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>2001</b>	264,800	241,700	23,100	8.7%
<b>2000</b>	259,900	237,000	23,000	8.8%
<b>1999</b>	252,000	229,900	22,100	8.8%
<b>1998</b>	248,700	222,400	26,300	10.6%
<b>1997</b>	246,100	219,900	26,200	10.6%
<b>1996</b>	240,700	213,900	26,900	11.2%
<b>1995</b>	242,100	212,200	29,900	12.3%
<b>1994</b>	242,200	211,400	30,800	12.7%
<b>1993</b>	240,000	207,000	32,900	13.7%
<b>1992</b>	237,400	204,700	32,700	13.8%
<b>1991</b>	229,300	202,700	26,600	11.6%
<b>1990</b>	227,900	205,400	22,500	9.9%
<b>1989</b>	201,400	182,500	18,900	9.4%
<b>1988</b>	198,000	178,600	19,400	9.8%
<b>1987</b>	189,600	171,000	18,600	9.8%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

**San Joaquin County**  
**(Stockton-Lodi Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>2001</b> January	258,000	231,300	26,600	10.3%
February	257,800	231,700	26,100	10.1%
March	260,000	235,200	24,800	9.5%
April	262,100	239,600	22,500	8.6%
May	267,000	246,000	21,000	7.9%
June	269,600	247,700	21,900	8.1%
July	267,900	245,100	22,800	8.5%
August	269,500	250,100	19,400	7.2%
September	268,700	249,200	19,500	7.3%
October	267,500	246,600	20,900	7.8%
November	265,300	239,300	26,000	9.8%
December	264,000	238,000	26,000	9.9%
Annual Average	264,800	241,700	23,100	8.7%
<b>2000</b> January	251,800	225,900	25,900	10.3%
February	253,100	226,700	26,400	10.4%
March	255,900	230,500	25,400	9.9%
April	258,500	234,700	23,800	9.2%
May	262,000	239,800	22,100	8.4%
June	266,300	241,900	24,400	9.2%
July	265,300	241,800	23,600	8.9%
August	266,600	247,200	19,400	7.3%
September	263,100	245,100	18,100	6.9%
October	261,300	241,300	20,000	7.6%
November	258,500	234,400	24,100	9.3%
December	256,700	234,300	22,400	8.7%
Annual Average	259,900	237,000	23,000	8.8%
<b>1999</b> January	246,100	217,400	28,700	11.7%
February	246,200	218,000	28,100	11.4%
March	249,000	223,200	25,800	10.4%
April	249,500	226,300	23,200	9.3%
May	252,400	231,100	21,300	8.4%
June	259,900	237,800	22,100	8.5%
July	255,000	232,200	22,700	8.9%
August	256,900	239,200	17,700	6.9%
September	256,900	240,700	16,300	6.3%
October	254,000	236,500	17,600	6.9%
November	249,900	229,100	20,700	8.3%
December	248,100	226,900	21,200	8.5%
Annual Average	252,000	229,900	22,100	8.8%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.



**San Joaquin County**  
**(Stockton-Lodi Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1998</b> January	245,100	212,800	32,300	13.2%
February	245,400	213,000	32,300	13.2%
March	248,400	219,000	29,400	11.8%
April	246,200	218,900	27,300	11.1%
May	247,900	222,400	25,600	10.3%
June	251,700	224,900	26,800	10.7%
July	250,800	223,400	27,300	10.9%
August	254,300	232,200	22,100	8.7%
September	252,600	231,900	20,700	8.2%
October	250,900	228,900	22,000	8.8%
November	246,200	221,400	24,800	10.1%
December	245,000	220,000	25,100	10.2%
Annual Average	248,700	222,400	26,300	10.6%
<b>1997</b> January	239,900	208,300	31,600	13.2%
February	241,200	210,000	31,200	12.9%
March	243,400	215,100	28,300	11.6%
April	243,400	216,500	26,800	11.0%
May	249,600	225,300	24,300	9.7%
June	250,500	223,400	27,100	10.8%
July	250,300	225,100	25,200	10.1%
August	253,100	231,700	21,400	8.5%
September	249,800	228,800	20,900	8.4%
October	246,800	222,900	23,900	9.7%
November	244,200	217,100	27,000	11.1%
December	241,500	214,800	26,600	11.0%
Annual Average	246,100	219,900	26,200	10.6%
<b>1996</b> January	236,000	203,000	33,100	14.0%
February	236,300	203,300	33,000	14.0%
March	236,800	206,300	30,400	12.9%
April	239,000	210,600	28,400	11.9%
May	241,000	215,700	25,300	10.5%
June	243,300	215,600	27,700	11.4%
July	243,100	217,400	25,700	10.6%
August	245,100	223,700	21,300	8.7%
September	244,900	223,700	21,100	8.6%
October	243,700	220,200	23,500	9.7%
November	242,000	215,600	26,400	10.9%
December	237,700	211,200	26,500	11.1%
Annual Average	240,700	213,900	26,900	11.2%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

**San Joaquin County**  
**(Stockton-Lodi Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1995</b> January	239,200	205,200	34,000	14.2%
February	239,800	206,100	33,700	14.1%
March	240,900	208,700	32,200	13.4%
April	242,100	210,300	31,800	13.1%
May	246,300	216,500	29,800	12.1%
June	244,500	212,500	32,000	13.1%
July	244,400	213,600	30,800	12.6%
August	245,200	220,400	24,800	10.1%
September	244,100	220,000	24,100	9.9%
October	242,500	216,400	26,100	10.8%
November	241,600	211,500	30,100	12.4%
December	234,700	205,600	29,100	12.4%
Annual Average	242,100	212,200	29,900	12.3%
<b>1994</b> January	239,500	202,700	36,800	15.3%
February	239,100	201,500	37,600	15.7%
March	241,100	207,200	34,000	14.1%
April	240,600	208,800	31,800	13.2%
May	243,600	213,500	30,100	12.4%
June	243,700	211,300	32,400	13.3%
July	248,700	219,300	29,500	11.8%
August	249,400	223,800	25,600	10.3%
September	246,600	221,600	25,000	10.1%
October	241,400	214,400	27,000	11.2%
November	239,100	208,700	30,500	12.8%
December	233,700	204,400	29,200	12.5%
Annual Average	242,200	211,400	30,800	12.7%
<b>1993</b> January	233,700	197,800	36,000	15.4%
February	235,800	197,300	38,500	16.3%
March	235,500	200,000	35,500	15.1%
April	233,600	203,600	30,000	12.8%
May	242,000	210,400	31,600	13.1%
June	243,100	206,400	36,600	15.1%
July	248,200	213,500	34,700	14.0%
August	246,200	217,600	28,500	11.6%
September	245,700	217,400	28,300	11.5%
October	244,600	211,200	33,400	13.6%
November	237,500	206,600	30,900	13.0%
December	233,800	202,600	31,200	13.3%
Annual Average	240,000	207,000	32,900	13.7%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

**San Joaquin County**  
**(Stockton-Lodi Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1992</b> January	227,900	195,100	32,700	14.4%
February	227,800	193,200	34,600	15.2%
March	230,400	198,000	32,400	14.1%
April	230,300	198,200	32,100	13.9%
May	236,900	206,500	30,300	12.8%
June	241,600	204,300	37,300	15.5%
July	244,900	215,800	29,100	11.9%
August	250,500	221,600	28,900	11.5%
September	246,200	218,100	28,100	11.4%
October	238,900	205,100	33,700	14.1%
November	238,400	200,200	38,200	16.0%
December	235,100	199,700	35,400	15.1%
Annual Average	237,400	204,700	32,700	13.8%
<b>1991</b> January	223,700	193,200	30,400	13.6%
February	223,400	193,100	30,300	13.6%
March	221,300	191,400	29,900	13.5%
April	226,100	198,600	27,400	12.1%
May	229,900	203,700	26,200	11.4%
June	229,900	201,700	28,200	12.3%
July	233,300	205,700	27,600	11.8%
August	235,500	215,000	20,500	8.7%
September	237,500	217,200	20,400	8.6%
October	231,100	207,800	23,300	10.1%
November	229,700	203,200	26,500	11.5%
December	230,300	201,900	28,300	12.3%
Annual Average	229,300	202,700	26,600	11.6%
<b>1990</b> January	219,000	196,100	23,000	10.5%
February	220,400	196,400	23,900	10.9%
March	222,600	200,800	21,800	9.8%
April	227,000	205,200	21,800	9.6%
May	232,500	211,500	21,000	9.0%
June	233,300	209,500	23,900	10.2%
July	237,000	214,800	22,200	9.4%
August	238,000	219,900	18,100	7.6%
September	231,100	213,600	17,500	7.6%
October	227,100	204,700	22,400	9.9%
November	225,100	197,400	27,800	12.3%
December	221,900	195,300	26,700	12.0%
Annual Average	227,900	205,400	22,500	9.9%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.



**San Joaquin County**  
**(Stockton-Lodi Metropolitan Statistical Area)**  
**Civilian Labor Force, Employment and Unemployment**  
**(2001 Benchmark)**

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>1989</b> January	194,800	173,400	21,400	11.0%
February	195,500	172,400	23,100	11.8%
March	194,200	174,500	19,700	10.1%
April	199,100	179,100	20,000	10.0%
May	208,400	188,500	19,900	9.5%
June	207,100	185,700	21,400	10.3%
July	209,200	189,900	19,300	9.2%
August	209,000	194,400	14,600	7.0%
September	209,000	193,500	15,500	7.4%
October	203,500	187,500	16,000	7.9%
November	195,700	178,000	17,700	9.1%
December	190,700	173,000	17,700	9.3%
Annual Average	201,400	182,500	18,900	9.4%
<b>1988</b> January	184,400	164,500	19,900	10.8%
February	187,600	166,300	21,300	11.3%
March	188,700	168,600	20,100	10.7%
April	195,800	176,800	19,000	9.7%
May	206,800	185,000	21,800	10.5%
June	202,400	181,700	20,700	10.2%
July	203,300	182,800	20,500	10.1%
August	206,000	187,800	18,200	8.8%
September	207,900	191,600	16,300	7.8%
October	200,600	183,600	17,000	8.5%
November	198,100	178,200	19,900	10.0%
December	194,400	176,700	17,700	9.1%
Annual Average	198,000	178,600	19,400	9.8%
<b>1987</b> January	183,600	159,600	24,000	13.1%
February	184,400	161,300	23,100	12.5%
March	185,400	164,000	21,400	11.6%
April	179,300	160,800	18,500	10.3%
May	197,300	179,600	17,700	9.0%
June	194,500	176,800	17,700	9.1%
July	193,000	175,200	17,800	9.2%
August	197,700	182,800	14,900	7.5%
September	197,500	182,400	15,100	7.6%
October	189,600	172,700	16,900	8.9%
November	189,000	170,500	18,500	9.8%
December	184,000	166,300	17,700	9.6%
Annual Average	189,600	171,000	18,600	9.8%

Note: The unemployment rate is calculated using unrounded data. Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

# *Projections & Planning Information*

## **Module C:**

# **Wage & Salary Employment**



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## Module C: Wage and Salary

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# Wage and Salary Employment

Industry employment data reflect jobs by "place of work" and by broad industry categories. The data do not include the self-employed, unpaid family workers or private household employees. Jobs located in a county or Metropolitan Statistical Area (MSA) that pay wages and salaries are counted, although workers may live outside the area. Jobs are counted regardless of the number of hours worked. Individuals who hold more than one job may be counted more than once.

## Current Employment Statistics

These data are based on the Current Employment Statistics (CES) survey. The CES survey summarizes monthly employment, and hours and earnings data from a sample of California employers. This survey is also referred to as the establishment, or wage and salary employment survey. The estimates are revised in the following month as job information is received from additional employers. Final revisions to the statewide and local area data, referred to as "Benchmark data," are made each March for the previous two years based on payroll tax reports submitted by California employers covered by the Unemployment Insurance program.

## Classification

Formerly, industry employment data were coded using the Standard Industrial Classification (SIC) system. In 1998, California began to transition from SIC to the new North American Industry Classification System (NAICS).

NAICS is the product of a cooperative effort on the part of the statistical agencies of the United States, Canada, and Mexico. It uses a production-oriented approach to categorize economic units. Units with similar production processes are classified in the same industry. NAICS focuses on how products and services are created, as opposed to SIC which focuses on what is produced. Using NAICS yields significantly different industry groupings than those produced using SIC. Due to these differences, NAICS data will not be directly comparable to the SIC-based data for earlier years.

Many programs within EDD produce or use data by industry, but some of these programs have not

yet transitioned from SIC to NAICS. For example, while the official estimates of employment by industry (also known as the Current Employment Statistics or CES program) began publishing data by NAICS with the release of Benchmark and monthly average data in February of 2003, the projections of employment by industry and occupation will not incorporate NAICS codes until the release of the 2002–2012 data (anticipated release in late 2003 or early 2004).

## Annual Average Data

Annual average data are derived by adding up the monthly data for each industry and dividing by twelve to determine an actual annual average. These annual average data may reflect major business openings, expansions, and closings. Or, these data may reflect trends affecting an entire industry such as economic conditions, structural and technological changes.

## Users of Wage and Salary Data

Economic developers, firms considering relocation, government agencies, grant writers, universities and anyone preparing reports on employment use wage and salary employment information to identify local industry trends. People looking for work and those counseling or placing others may learn about prospects for employment in various industries. Anyone seeking background information may use the wage and salary industry employment tables to look at the county's economy as a whole; at one industry; and/or at related industries for a firm's suppliers or for potential markets.

## Points to Consider

Monthly job estimates are not adjusted for seasonal changes in employment. It is important to keep in mind that month-to-month changes may be due to regular seasonal patterns in an industry. For instance, during the holiday shopping season, retail jobs increase and during the summer, there are more workers in the construction industry. On the other hand, changes may reflect new businesses, expansions, or closings. Comparison of monthly changes for the same period in prior years will provide a better understanding of whether the change is seasonal or atypical.

Monthly fluctuations in wage and salary employment are an essential part of the changes that occur in the dynamic economy of a county or region. It is important to study wage and salary employment data over time to evaluate the strength of the local economy.

Wage and salary employment data identify which industries have the largest number of jobs. However, an industry with a large number of workers may not necessarily be expanding; it may even be downsizing, while new and expanding industries may not have large numbers of existing jobs but are a good source for new job opportunities.

Annual average data, over time, tend to be a better indicator of employment trends for the various industries in an area.

### **Additional Sources of Information**

You may consult the labor force and industry and occupational projections modules of this report for more information on economic conditions in the county. Or, you may speak with the Labor Market Information Division's (LMID) area consultants located throughout the state who are knowledgeable about the economic activities within their local areas. Other sources of information include:

- U. S. Bureau of Labor Statistics
- Local Chambers of Commerce
- Local Economic Development Organizations
- Local Newspapers
- Universities and Colleges

### **Automated Access**

Access to current data is available through the Employment Development Department's Internet address at:

**[www.calmis.ca.gov](http://www.calmis.ca.gov)**

For technical assistance or additional information about the Employment Development Department's website, please call (916) 262-2162. To obtain contact information for local labor market consultants or to obtain current monthly data, customers may also call (916) 262-2162, or FAX (916) 262-2443.

**San Joaquin County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
2000–2002 Annual Averages\*

Industry Title	2000	2001	2002
Total Wage and Salary	202,600	206,800	210,000
Total Farm	16,700	15,700	16,000
Total Nonfarm	185,800	191,100	194,000
Total Private	148,900	152,200	153,900
Goods Producing	36,500	35,900	34,700
Natural Resources and Mining	200	200	200
Construction	11,600	13,200	13,400
Building, Develop & Gen Cont & Hvy Const	4,300	4,700	4,800
Specialty Trade Contractors	7,400	8,500	8,700
Manufacturing	24,700	22,500	21,000
Durable Goods	13,100	12,500	11,100
Fabricated Metal Product Mfg	3,600	3,400	3,000
Residual-Miscellaneous Manufacturing	9,500	9,100	8,100
Nondurable Goods	11,600	10,100	10,000
Food Manufacturing	6,900	5,400	5,500
Residual-Beverage and Tobacco Product Mfg	4,700	4,700	4,500
Service Providing	149,400	155,100	159,400
Trade, Transportation and Utilities	41,700	43,600	44,300
Wholesale Trade	6,400	6,700	6,900
Retail Trade	23,600	24,600	24,900
Clothing and Clothing Accessories Stores	1,500	1,600	1,600
General Merchandise Stores	4,700	4,900	4,900
Department Stores	4,300	4,500	4,500
Residual-Other General Merchandise Stores	400	500	400
Residual-Miscellaneous Store Retailers	17,400	18,000	18,400
Transportation, Warehousing and Utilities	11,700	12,300	12,500
Utilities	1,000	1,000	1,100
Transportation and Warehousing	10,700	11,300	11,400
Residual-Air Transportation	1,700	2,300	2,600
Truck Transportation	5,500	5,400	5,200
Warehousing and Storage	3,500	3,600	3,600
Information	3,000	3,300	3,100
Financial Activities	8,500	8,900	9,200
Finance and Insurance	5,600	5,900	6,200
Residual-Other Finance	2,700	2,700	2,700
Credit Intermediation and Related Activities	2,900	3,200	3,500
Real Estate and Rental and Leasing	2,900	2,900	3,000
Professional and Business Services	16,800	16,900	17,200
Residual-Professional, Scientific and Technical Services	6,100	6,500	7,100
Administrative and Support and Waste Services	10,800	10,400	10,100
Educational and Health Services	22,000	22,300	23,300
Educational Services	3,500	3,400	3,500

\*March 2002 Benchmark figures.



**San Joaquin County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
2000–2002 Annual Averages\*

Industry Title	2000	2001	2002
Health Care and Social Assistance	18,500	19,000	19,800
Health Care	15,500	15,800	16,600
Social Assistance	3,000	3,200	3,300
Leisure and Hospitality	14,400	15,300	15,900
Arts, Entertainment, and Recreation	2,100	2,200	2,200
Accommodation and Food Service	12,300	13,100	13,700
Accommodation	1,000	1,100	1,000
Food Services and Drinking Places	11,400	12,000	12,600
Residual-Full-Service Restaurants	5,300	5,700	6,000
Limited-Service Eating Places	6,100	6,300	6,600
Other Services	5,900	6,100	6,400
Government	37,000	38,800	40,100
Federal Government	3,700	4,000	4,100
Other Federal Government	1,900	2,200	2,300
Department of Defense	1,800	1,800	1,800
State and Local Government	33,300	34,800	36,000
State Government	4,400	4,500	4,500
Local Government	28,900	30,300	31,500
Local Government Education	16,700	17,600	18,300
County	7,700	8,100	8,500
City	3,700	3,800	3,900
Other Local Government	800	800	800

\*March 2002 Benchmark figures.

**San Joaquin County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2000\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	189,600	191,500	196,500	202,100	208,300	210,600	205,800	209,400	211,500	206,200	199,200	200,200	202,600
Total Farm	11,400	12,700	16,100	19,600	24,300	23,500	17,300	17,900	20,000	16,500	10,700	10,900	16,700
Total Nonfarm	178,200	178,800	180,400	182,500	184,000	187,100	188,500	191,500	191,500	189,700	188,500	189,300	185,800
Total Private	141,800	142,300	143,600	145,500	146,300	150,100	152,100	154,700	154,700	152,300	151,000	151,800	148,900
Goods Producing	33,300	33,000	33,500	34,100	34,700	36,900	39,200	41,200	40,200	38,000	37,100	36,400	36,500
Natural Resources and Mining	100	100	100	100	100	200	200	200	200	200	200	200	200
Construction	10,500	10,200	10,400	10,900	11,200	12,000	12,400	12,500	12,400	12,400	12,400	12,400	11,600
Building, Develop & Gen Cont & Hvy Const	3,800	3,600	3,600	3,800	4,000	4,500	4,700	4,700	4,600	4,500	4,500	4,700	4,300
Specialty Trade Contractors	6,700	6,600	6,800	7,100	7,200	7,500	7,700	7,800	7,800	7,900	7,900	7,700	7,400
Manufacturing	22,700	22,700	23,000	23,100	23,400	24,700	26,600	28,500	27,600	25,400	24,500	23,800	24,700
Durable Goods	12,700	12,800	13,000	13,000	13,000	13,300	13,300	13,200	13,300	13,200	12,900	13,100	13,100
Fabricated Metal Product Mfg	3,500	3,600	3,600	3,600	3,600	3,700	3,600	3,700	3,700	3,600	3,500	3,500	3,600
Residual-Miscellaneous Manufacturing	9,200	9,200	9,400	9,400	9,400	9,600	9,700	9,500	9,600	9,600	9,400	9,600	9,500
Nondurable Goods	10,000	9,900	10,000	10,100	10,400	11,400	13,300	15,300	14,300	12,200	11,600	10,700	11,600
Food Manufacturing	5,300	5,100	5,300	5,300	5,600	6,500	8,600	10,600	9,600	7,500	7,000	6,100	6,900
Residual-Beverage and Tobacco Product Mfg	4,700	4,800	4,700	4,800	4,800	4,900	4,700	4,700	4,700	4,700	4,600	4,600	4,700
Service Providing	144,900	145,800	146,900	148,400	149,300	150,200	149,300	150,300	151,300	151,700	151,400	152,900	149,400
Trade, Transportation and Utilities	40,500	40,100	40,100	40,500	40,800	41,400	42,500	42,500	42,600	42,600	43,200	43,800	41,700
Wholesale Trade	6,200	6,200	6,300	6,300	6,300	6,500	6,700	6,700	6,700	6,600	6,500	6,300	6,400
Retail Trade	23,000	22,700	22,600	22,900	23,100	23,200	23,600	23,500	23,500	24,000	25,000	25,700	23,600
Clothing and Clothing Accessories Stores	1,400	1,400	1,400	1,300	1,400	1,400	1,500	1,500	1,500	1,600	1,700	1,800	1,500
General Merchandise Stores	4,600	4,300	4,300	4,300	4,300	4,400	4,600	4,700	4,500	5,000	5,400	5,600	4,700
Department Stores	4,200	4,000	3,900	3,900	3,900	4,000	4,200	4,300	4,100	4,500	4,900	5,100	4,300
Residual-Other General Merchandise Stores	400	300	400	400	400	400	400	400	400	500	500	500	400
Residual-Miscellaneous Store Retailers	17,000	17,000	16,900	17,300	17,400	17,400	17,500	17,300	17,500	17,400	17,900	18,300	17,400
Transportation, Warehousing and Utilities	11,300	11,200	11,200	11,300	11,400	11,700	12,200	12,300	12,400	12,000	11,700	11,800	11,700
Utilities	1,000	1,100	1,100	1,000	1,000	1,000	1,000	1,000	1,000	1,000	900	1,000	1,000
Transportation and Warehousing	10,300	10,100	10,100	10,300	10,400	10,700	11,200	11,300	11,400	11,000	10,800	10,800	10,700
Residual-Air Transportation	1,700	1,600	1,500	1,600	1,500	1,600	1,700	1,700	1,700	1,800	1,800	1,700	1,700
Truck Transportation	5,100	5,000	5,100	5,200	5,400	5,600	6,000	6,100	6,100	5,800	5,400	5,400	5,500
Warehousing and Storage	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,600	3,400	3,600	3,700	3,500

\*March 2002 Benchmark figures.

**San Joaquin County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2000\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Information	2,900	3,000	2,900	2,900	3,000	3,000	3,000	3,100	3,000	3,100	3,100	3,100	3,000
Financial Activities	8,400	8,500	8,500	8,400	8,400	8,400	8,400	8,400	8,500	8,500	8,500	8,600	8,500
Finance and Insurance	5,700	5,700	5,700	5,600	5,500	5,500	5,500	5,500	5,600	5,600	5,600	5,700	5,600
Residual-Other Finance	2,700	2,700	2,800	2,700	2,600	2,600	2,600	2,600	2,700	2,700	2,700	2,800	2,700
Credit Intermediation and Related Activities	3,000	3,000	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900
Real Estate and Rental and Leasing	2,700	2,800	2,800	2,800	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900	2,900
Professional and Business Services	16,100	16,200	16,600	16,800	16,500	16,800	16,700	17,200	17,400	17,500	16,900	17,300	16,800
Residual-Professional, Scientific and Technical Services	6,000	6,200	6,200	6,200	5,900	6,000	5,900	6,100	6,000	6,000	6,100	6,400	6,100
Administrative and Support and Waste Services	10,100	10,000	10,400	10,600	10,600	10,800	10,800	11,100	11,400	11,500	10,800	10,900	10,800
Educational and Health Services	21,400	22,000	22,100	22,300	22,300	22,400	21,300	21,400	22,000	22,300	22,100	22,400	22,000
Educational Services	3,100	3,700	3,700	3,800	3,800	3,800	2,900	2,900	3,300	3,600	3,600	3,600	3,500
Health Care and Social Assistance	18,300	18,300	18,400	18,500	18,500	18,600	18,400	18,500	18,700	18,700	18,500	18,800	18,500
Health Care	15,400	15,400	15,400	15,500	15,500	15,500	15,500	15,600	15,600	15,600	15,400	15,700	15,500
Social Assistance	2,900	2,900	3,000	3,000	3,000	3,100	2,900	2,900	3,100	3,100	3,100	3,100	3,000
Leisure and Hospitality	13,500	13,800	14,100	14,600	14,700	15,100	14,900	14,800	14,800	14,300	14,300	14,300	14,400
Arts, Entertainment, and Recreation	1,800	1,900	1,900	2,200	2,200	2,300	2,400	2,300	2,300	2,100	2,000	1,900	2,100
Accommodation and Food Service	11,700	11,900	12,200	12,400	12,500	12,800	12,500	12,500	12,500	12,200	12,300	12,400	12,300
Accommodation	900	900	900	1,000	1,100	1,100	1,100	1,000	1,000	800	800	800	1,000
Food Services and Drinking Places	10,800	11,000	11,300	11,400	11,400	11,700	11,400	11,500	11,500	11,400	11,500	11,600	11,400
Residual-Full-Service Restaurants	5,000	5,100	5,300	5,300	5,400	5,500	5,300	5,300	5,300	5,300	5,400	5,400	5,300
Limited-Service Eating Places	5,800	5,900	6,000	6,100	6,000	6,200	6,100	6,200	6,200	6,100	6,100	6,200	6,100
Other Services	5,700	5,700	5,800	5,900	5,900	6,100	6,100	6,100	6,200	6,000	5,800	5,900	5,900
Government	36,400	36,500	36,800	37,000	37,700	37,000	36,400	36,800	36,800	37,400	37,500	37,500	37,000
Federal Government	3,700	3,700	3,700	3,800	4,200	3,800	3,800	3,700	3,600	3,600	3,600	3,600	3,700
Other Federal Government	1,900	1,900	1,900	2,000	2,400	2,000	2,000	1,900	1,800	1,800	1,800	1,800	1,900
Department of Defense	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
State and Local Government	32,700	32,800	33,100	33,200	33,500	33,200	32,600	33,100	33,200	33,800	33,900	33,900	33,300
State Government	4,300	4,300	4,300	4,300	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400	4,400
Local Government	28,400	28,500	28,800	28,900	29,100	28,800	28,200	28,700	28,800	29,400	29,500	29,500	28,900
Local Government Education	16,500	16,600	16,800	16,900	16,900	16,500	15,900	16,400	16,500	17,100	17,100	17,100	16,700
County	7,600	7,600	7,700	7,700	7,700	7,800	7,700	7,700	7,800	7,800	7,900	7,900	7,700
City	3,500	3,500	3,600	3,600	3,700	3,800	3,800	3,800	3,700	3,700	3,700	3,700	3,700
Other Local Government	800	800	700	700	800	700	800	800	800	800	800	800	800

\*March 2002 Benchmark figures.



**San Joaquin County**  
**Wage and Salary Employment by Industry**  
 (Data Not Seasonally Adjusted)  
 Monthly January–December 2001\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	196,500	197,500	202,200	206,500	213,300	215,300	208,000	213,200	213,000	209,800	203,700	202,400	206,800
Total Farm	10,500	11,100	14,100	17,300	21,900	22,000	16,300	17,900	18,900	16,800	11,400	10,500	15,700
Total Nonfarm	186,000	186,400	188,100	189,200	191,400	193,300	191,700	195,300	194,100	193,000	192,300	191,900	191,100
Total Private	148,400	148,500	149,900	150,700	152,300	154,400	153,500	156,000	155,200	153,300	152,400	152,100	152,200
Goods Producing	34,700	34,700	34,900	35,200	36,000	37,100	36,600	38,500	37,500	36,300	35,200	34,400	35,900
Natural Resources and Mining	200	200	200	200	200	200	200	200	200	200	200	200	200
Construction	11,900	12,200	12,700	13,100	13,500	13,900	14,000	14,200	13,700	13,600	13,200	12,700	13,200
Building, Develop & Gen Cont & Hvy Const	4,100	4,300	4,500	4,700	4,800	5,000	5,100	5,100	4,800	5,000	4,800	4,500	4,700
Specialty Trade Contractors	7,800	7,900	8,200	8,400	8,700	8,900	8,900	9,100	8,900	8,600	8,400	8,200	8,500
Manufacturing	22,600	22,300	22,000	21,900	22,300	23,000	22,400	24,100	23,600	22,500	21,800	21,500	22,500
Durable Goods	12,900	13,100	13,000	12,800	12,800	12,900	12,200	12,100	12,000	12,100	11,900	11,600	12,500
Fabricated Metal Product Mfg	3,400	3,500	3,400	3,300	3,400	3,500	3,400	3,300	3,300	3,400	3,300	3,200	3,400
Residual-Miscellaneous Manufacturing	9,500	9,600	9,600	9,500	9,400	9,400	8,800	8,800	8,700	8,700	8,600	8,400	9,100
Nondurable Goods	9,700	9,200	9,000	9,100	9,500	10,100	10,200	12,000	11,600	10,400	9,900	9,900	10,100
Food Manufacturing	5,100	4,700	4,400	4,400	4,700	5,400	5,400	7,200	6,800	5,700	5,300	5,300	5,400
Residual-Beverage and Tobacco Product Mfg	4,600	4,500	4,600	4,700	4,800	4,700	4,800	4,800	4,800	4,700	4,600	4,600	4,700
Service Providing	151,300	151,700	153,200	154,000	155,400	156,200	155,100	156,800	156,600	156,700	157,100	157,500	155,100
Trade, Transportation and Utilities	42,900	42,200	42,600	42,700	43,200	43,800	44,200	44,600	44,400	44,100	44,300	44,300	43,600
Wholesale Trade	6,200	6,200	6,300	6,500	6,600	6,900	6,900	7,100	7,000	7,100	6,900	6,800	6,700
Retail Trade	24,400	23,900	24,100	24,100	24,400	24,600	24,600	24,500	24,700	24,500	25,300	25,600	24,600
Clothing and Clothing Accessories Stores	1,700	1,600	1,500	1,500	1,600	1,600	1,500	1,600	1,600	1,500	1,600	1,800	1,600
General Merchandise Stores	5,000	4,800	4,800	4,700	4,700	4,900	4,800	4,800	4,800	4,900	5,400	5,500	4,900
Department Stores	4,600	4,300	4,300	4,200	4,300	4,400	4,400	4,400	4,300	4,400	4,900	5,000	4,500
Residual-Other General Merchandise Stores	400	500	500	500	400	500	400	400	500	500	500	500	500
Residual-Miscellaneous Store Retailers	17,700	17,500	17,800	17,900	18,100	18,100	18,300	18,100	18,300	18,100	18,300	18,300	18,000
Transportation, Warehousing and Utilities	12,300	12,100	12,200	12,100	12,200	12,300	12,700	13,000	12,700	12,500	12,100	11,900	12,300
Utilities	1,100	1,100	1,100	1,000	900	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Transportation and Warehousing	11,200	11,000	11,100	11,100	11,300	11,300	11,700	12,000	11,700	11,500	11,100	10,900	11,300
Residual-Air Transportation	2,300	2,200	2,200	2,300	2,400	2,300	2,400	2,600	2,400	2,400	2,200	2,200	2,300
Truck Transportation	5,200	5,200	5,300	5,300	5,400	5,500	5,800	5,900	5,800	5,500	5,200	5,000	5,400
Warehousing and Storage	3,700	3,600	3,600	3,500	3,500	3,500	3,500	3,500	3,500	3,600	3,700	3,700	3,600

\*March 2002 Benchmark figures.



**San Joaquin County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2001\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Information	3,400	3,400	3,400	3,300	3,300	3,300	3,400	3,300	3,100	3,100	3,000	3,000	3,300
Financial Activities	8,600	8,700	8,700	8,900	8,800	8,900	8,900	8,900	8,800	8,900	9,000	9,200	8,900
Finance and Insurance	5,700	5,800	5,800	5,900	5,800	5,900	5,900	6,000	5,900	6,100	6,100	6,300	5,900
Residual-Other Finance	2,700	2,700	2,700	2,700	2,700	2,800	2,700	2,700	2,700	2,800	2,700	2,700	2,700
Credit Intermediation and Related Activities	3,000	3,100	3,100	3,200	3,100	3,100	3,200	3,300	3,200	3,300	3,400	3,600	3,200
Real Estate and Rental and Leasing	2,900	2,900	2,900	3,000	3,000	3,000	3,000	2,900	2,900	2,800	2,900	2,900	2,900
Professional and Business Services	16,600	16,500	16,700	16,900	16,700	17,000	16,900	17,100	17,500	17,100	16,700	17,100	16,900
Residual-Professional, Scientific and Technical Services	6,400	6,500	6,500	6,600	6,400	6,600	6,500	6,600	6,600	6,600	6,500	6,700	6,500
Administrative and Support and Waste Services	10,200	10,000	10,200	10,300	10,300	10,400	10,400	10,500	10,900	10,500	10,200	10,400	10,400
Educational and Health Services	21,700	22,400	22,500	22,500	22,500	22,300	21,900	21,600	22,200	22,600	22,900	22,900	22,300
Educational Services	3,100	3,600	3,600	3,600	3,500	3,200	2,800	2,700	3,300	3,600	3,700	3,700	3,400
Health Care and Social Assistance	18,600	18,800	18,900	18,900	19,000	19,100	19,100	18,900	18,900	19,000	19,200	19,200	19,000
Health Care	15,400	15,500	15,600	15,700	15,800	15,800	15,800	15,900	15,700	15,800	16,000	16,000	15,800
Social Assistance	3,200	3,300	3,300	3,200	3,200	3,300	3,300	3,000	3,200	3,200	3,200	3,200	3,200
Leisure and Hospitality	14,600	14,700	15,100	15,100	15,600	15,700	15,600	15,800	15,600	15,200	15,300	15,300	15,300
Arts, Entertainment, and Recreation	1,900	2,000	2,100	2,400	2,500	2,500	2,400	2,400	2,400	2,100	2,000	2,000	2,200
Accommodation and Food Service	12,700	12,700	13,000	12,700	13,100	13,200	13,200	13,400	13,200	13,100	13,300	13,300	13,100
Accommodation	1,100	1,100	1,200	1,000	1,100	1,000	1,100	1,100	1,000	1,000	1,000	1,000	1,100
Food Services and Drinking Places	11,600	11,600	11,800	11,700	12,000	12,200	12,100	12,300	12,200	12,100	12,300	12,300	12,000
Residual-Full-Service Restaurants	5,600	5,600	5,700	5,500	5,600	5,800	5,700	5,800	5,600	5,700	5,800	5,700	5,700
Limited-Service Eating Places	6,000	6,000	6,100	6,200	6,400	6,400	6,400	6,500	6,600	6,400	6,500	6,600	6,300
Other Services	5,900	5,900	6,000	6,100	6,200	6,300	6,000	6,200	6,100	6,000	6,000	5,900	6,100
Government	37,600	37,900	38,200	38,500	39,100	38,900	38,200	39,300	38,900	39,700	39,900	39,800	38,800
Federal Government	3,700	3,700	3,700	3,900	4,000	4,200	4,300	4,200	4,200	4,200	4,200	4,200	4,000
Other Federal Government	1,900	1,900	1,900	2,100	2,200	2,400	2,500	2,400	2,400	2,400	2,400	2,400	2,200
Department of Defense	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
State and Local Government	33,900	34,200	34,500	34,600	35,100	34,700	33,900	35,100	34,700	35,500	35,700	35,600	34,800
State Government	4,400	4,400	4,400	4,400	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500
Local Government	29,500	29,800	30,100	30,200	30,600	30,200	29,400	30,600	30,200	31,000	31,200	31,100	30,300
Local Government Education	17,200	17,400	17,600	17,700	18,000	17,400	16,700	17,800	17,400	18,100	18,300	18,100	17,600
County	7,900	8,000	8,000	8,000	8,000	8,100	8,000	8,100	8,200	8,200	8,300	8,400	8,100
City	3,600	3,700	3,700	3,700	3,800	3,900	3,900	3,900	3,800	3,900	3,800	3,800	3,800
Other Local Government	800	700	800	800	800	800	800	800	800	800	800	800	800

\*March 2002 Benchmark figures.

**San Joaquin County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2002\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	199,600	201,000	205,800	206,700	215,000	218,300	210,500	214,200	216,400	214,700	209,700	208,500	210,000
Total Farm	12,200	12,300	15,300	16,100	21,700	24,000	16,400	16,800	17,700	17,100	11,700	10,900	16,000
Total Nonfarm	187,400	188,700	190,500	190,600	193,300	194,300	194,100	197,400	198,700	197,600	198,000	197,600	194,000
Total Private	147,500	148,500	149,900	150,000	152,100	153,700	156,700	159,000	158,900	157,100	157,200	156,500	153,900
Goods Producing	32,900	33,000	33,100	32,800	33,700	34,700	35,800	37,500	36,900	35,900	35,200	34,300	34,700
Natural Resources and Mining	200	200	200	200	200	200	200	200	200	200	200	200	200
Construction	11,900	12,100	12,400	12,900	13,500	13,800	14,100	14,400	14,300	14,200	14,000	13,400	13,400
Building, Develop & Gen Cont & Hvy Const	4,100	4,300	4,400	4,600	4,900	5,000	5,000	5,100	5,100	5,200	5,000	4,500	4,800
Specialty Trade Contractors	7,800	7,800	8,000	8,300	8,600	8,800	9,100	9,300	9,200	9,000	9,000	8,900	8,700
Manufacturing	20,800	20,700	20,500	19,700	20,000	20,700	21,500	22,900	22,400	21,500	21,000	20,700	21,000
Durable Goods	11,300	11,400	11,500	11,100	11,100	11,100	10,900	11,000	10,900	10,900	10,900	10,800	11,100
Fabricated Metal Product Mfg	3,100	3,100	3,100	3,000	3,000	3,000	2,900	3,000	2,900	2,900	2,900	2,800	3,000
Residual-Miscellaneous Manufacturing	8,200	8,300	8,400	8,100	8,100	8,100	8,000	8,000	8,000	8,000	8,000	8,000	8,100
Nondurable Goods	9,500	9,300	9,000	8,600	8,900	9,600	10,600	11,900	11,500	10,600	10,100	9,900	10,000
Food Manufacturing	4,900	4,700	4,400	4,100	4,300	5,000	6,000	7,200	7,200	6,400	5,900	5,600	5,500
Residual-Beverage and Tobacco Product Mfg	4,600	4,600	4,600	4,500	4,600	4,600	4,600	4,700	4,300	4,200	4,200	4,300	4,500
Service Providing	154,500	155,700	157,400	157,800	159,600	159,600	158,300	159,900	161,800	161,700	162,800	163,300	159,400
Trade, Transportation and Utilities	42,800	42,500	42,700	43,200	43,400	44,200	44,900	45,400	45,400	45,300	45,700	45,800	44,300
Wholesale Trade	6,500	6,600	6,600	6,800	6,700	7,000	7,200	7,200	7,200	7,100	7,000	6,900	6,900
Retail Trade	24,300	24,000	24,200	24,400	24,600	24,700	24,800	25,000	25,300	25,400	25,700	26,100	24,900
Clothing and Clothing Accessories Stores	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,600	1,700	1,600
General Merchandise Stores	4,900	4,700	4,700	4,700	4,800	4,800	4,800	4,800	4,900	5,000	5,400	5,500	4,900
Department Stores	4,500	4,300	4,300	4,300	4,400	4,400	4,400	4,400	4,500	4,600	4,900	5,100	4,500
Residual-Other General Merchandise Stores	400	400	400	400	400	400	400	400	400	400	500	400	400
Residual-Miscellaneous Store Retailers	17,800	17,700	17,900	18,100	18,200	18,300	18,400	18,600	18,800	18,800	18,700	18,900	18,400
Transportation, Warehousing and Utilities	12,000	11,900	11,900	12,000	12,100	12,500	12,900	13,200	12,900	12,800	13,000	12,800	12,500
Utilities	1,100	1,100	1,100	1,100	1,100	1,200	1,200	1,200	1,100	1,100	1,100	1,000	1,100
Transportation and Warehousing	10,900	10,800	10,800	10,900	11,000	11,300	11,700	12,000	11,800	11,700	11,900	11,800	11,400
Residual-Air Transportation	2,300	2,400	2,300	2,300	2,400	2,500	2,600	2,800	2,600	2,700	2,900	3,000	2,600
Truck Transportation	4,900	4,800	4,900	5,000	5,000	5,200	5,600	5,700	5,600	5,500	5,200	5,100	5,200
Warehousing and Storage	3,700	3,600	3,600	3,600	3,600	3,600	3,500	3,500	3,600	3,500	3,800	3,700	3,600

\*March 2002 Benchmark figures.



**San Joaquin County**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2002\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Information	3,200	3,200	3,200	3,100	3,100	3,100	3,000	3,000	2,900	2,900	3,000	3,000	3,100
Financial Activities	9,000	9,100	9,000	9,100	9,200	9,100	9,300	9,400	9,300	9,200	9,200	9,300	9,200
Finance and Insurance	6,100	6,200	6,200	6,300	6,300	6,200	6,300	6,300	6,200	6,200	6,200	6,300	6,200
Residual-Other Finance	2,700	2,800	2,800	2,700	2,700	2,600	2,700	2,700	2,600	2,600	2,700	2,700	2,700
Credit Intermediation and Related Activities	3,400	3,400	3,400	3,600	3,600	3,600	3,600	3,600	3,600	3,600	3,500	3,600	3,500
Real Estate and Rental and Leasing	2,900	2,900	2,800	2,800	2,900	2,900	3,000	3,100	3,100	3,000	3,000	3,000	3,000
Professional and Business Services	16,500	16,600	17,100	16,900	16,900	17,000	17,400	17,600	17,900	17,500	17,500	17,700	17,200
Residual-Professional, Scientific and Technical Services	6,900	7,000	7,100	7,100	6,900	6,900	7,100	7,100	7,200	7,100	7,200	7,400	7,100
Administrative and Support and Waste Services	9,600	9,600	10,000	9,800	10,000	10,100	10,300	10,500	10,700	10,400	10,300	10,300	10,100
Educational and Health Services	22,500	23,300	23,500	23,100	23,200	22,700	23,200	22,800	23,300	23,700	24,000	24,000	23,300
Educational Services	3,000	3,700	3,700	3,700	3,600	3,000	3,000	3,100	3,400	3,700	3,800	3,800	3,500
Health Care and Social Assistance	19,500	19,600	19,800	19,400	19,600	19,700	20,200	19,700	19,900	20,000	20,200	20,200	19,800
Health Care	16,200	16,300	16,400	16,100	16,200	16,300	17,200	16,600	16,700	16,800	17,000	17,000	16,600
Social Assistance	3,300	3,300	3,400	3,300	3,400	3,400	3,000	3,100	3,200	3,200	3,200	3,200	3,300
Leisure and Hospitality	14,600	14,800	15,200	15,500	16,200	16,400	16,600	16,600	16,500	16,100	16,100	16,000	15,900
Arts, Entertainment, and Recreation	1,900	2,000	2,000	2,100	2,200	2,300	2,500	2,400	2,300	2,300	2,400	2,300	2,200
Accommodation and Food Service	12,700	12,800	13,200	13,400	14,000	14,100	14,100	14,200	14,200	13,800	13,700	13,700	13,700
Accommodation	900	900	1,000	900	1,000	1,000	1,000	1,100	1,100	1,100	1,100	1,100	1,000
Food Services and Drinking Places	11,800	11,900	12,200	12,500	13,000	13,100	13,100	13,100	13,100	12,700	12,600	12,600	12,600
Residual-Full-Service Restaurants	5,600	5,600	5,700	6,000	6,200	6,300	6,200	6,200	6,200	6,000	6,000	6,000	6,000
Limited-Service Eating Places	6,200	6,300	6,500	6,500	6,800	6,800	6,900	6,900	6,900	6,700	6,600	6,600	6,600
Other Services	6,000	6,000	6,100	6,300	6,400	6,500	6,500	6,700	6,700	6,500	6,500	6,400	6,400
Government	39,900	40,200	40,600	40,600	41,200	40,600	37,400	38,400	39,800	40,500	40,800	41,100	40,100
Federal Government	4,200	4,200	4,200	4,100	4,100	4,100	4,000	4,000	4,000	4,000	4,000	4,200	4,100
Other Federal Government	2,300	2,300	2,300	2,300	2,300	2,300	2,200	2,200	2,200	2,200	2,200	2,300	2,300
Department of Defense	1,900	1,900	1,900	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,900	1,800
State and Local Government	35,700	36,000	36,400	36,500	37,100	36,500	33,400	34,400	35,800	36,500	36,800	36,900	36,000
State Government	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,400	4,500	4,600
Local Government	31,200	31,500	31,900	32,000	32,600	32,000	28,900	29,900	31,300	32,000	32,400	32,400	31,500
Local Government Education	18,200	18,600	18,900	18,900	19,400	18,600	15,700	16,900	18,000	18,600	19,000	18,900	18,300
County	8,400	8,400	8,400	8,500	8,500	8,600	8,400	8,300	8,500	8,600	8,600	8,600	8,500
City	3,800	3,800	3,800	3,800	3,900	4,000	4,000	4,000	4,000	4,000	4,000	4,000	3,900
Other Local Government	800	700	800	800	800	800	800	700	800	800	800	900	800

\*March 2002 Benchmark figures.

# *Projections & Planning Information*

## **Module D:**

# **Projections**





# **PROJECTIONS AND PLANNING INFORMATION**

**2001 UPDATES**

**FOR**

**SAN JOAQUIN COUNTY**

**Replace Module D: PROJECTIONS**

**EMPLOYMENT DEVELOPMENT DEPARTMENT  
LABOR MARKET INFORMATION DIVISION**

For questions about this report, call (916) 262-2625



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# INTRODUCTION

## to Industry and Occupational Projections

### Using Projections Data

The projections contained in these tables provide information for estimating job opportunities, developing training programs, and gaining an insight into future employment trends. However, before reaching any final conclusions, the user should consider the following:

**Remember that these data are estimates.** They were developed based on the assumption that historical trends will continue into the future. However, events may occur during the seven-year projection period that are impossible to predict. Events such as military base closures, major business closures or openings and natural disasters can all have a major impact on employment levels.

**Do not use these projections as your sole source of information.** Use other, more recent sources of local economic data to corroborate the projection data. This information may be found in other documents such as those published by the Employment Development Department's Labor Market Information Division, local chambers of commerce, or local economic development agencies.

**Projections employment data are annual averages.** These averages may not accurately portray seasonal occupations or industries such as those found in agriculture, retail sales, recreation, and construction.

**Employment levels stated reflect workers who are covered by the Unemployment Insurance program.** As a result, industries that are made up largely of individuals who are

self-employed will be understated. Examples include industries such as real estate, hair salons, and bookkeeping. Occupations such as dental hygienists and consultants will also show an understated level of employment.

### Industry Projections

Projections by industry forecast the anticipated changes within an industry over time. Forecasts for each county are based on the county's past employment trends and are refined by a review of current economic developments within the local community. The effect of State-level economic trends are also considered.

Industry employment projections utilize industry employment data from both the Current Employment Statistics (CES) program, and the Employment Payroll (ES202) program. There is a certain amount of error built into both systems. These errors may include employers classified in the wrong industry, incorrect employment levels reported by the employer and employment reported in the wrong county.

If an industry shows a decrease in future employment, it may be that only one or two industry components are experiencing the decline and other components are still expected to hire new workers. It is best to investigate all sectors of the industry. For example, retail trade has several components: building materials and garden supplies; general merchandise stores; food stores, automotive dealers and service stations; and apparel and accessory stores, to name a few.

Geographical differences account for differing employment opportunities. If an individual is considering relocating from one area of the state to another, the size of the industry and its expected growth level need to be kept in mind. Small rural counties will not have the same employment possibilities as do the larger metropolitan areas.

### Knowing Future Industry Trends:

- ✓ helps economic development professionals foster compatible growth and promote the county's strengths,
- ✓ helps local government agencies, non-profit agencies, researchers and other interested parties formulate plans and proposals,
- ✓ helps people looking for work and those doing counseling and/or job placement to learn about employment opportunities in various industries.

## **Occupational Projections**

Projections by occupation estimate the changes in occupational employment over time resulting from two principal causes - growth and technology. Changes in the number, size and type of employers within a given geographical area will affect the demand for certain occupations. Also, technological advances or changes in laws or regulations may affect the occupational mix.

County occupational projections are prepared for all but the smaller counties which are grouped together to produce projections at the multicounty level.

General changes in the work place affect some occupations. Jobs may be created, eliminated or consolidated because of restructuring or regulations affecting the requirements for the job. For example, personal computers and word processing programs eliminated many typist jobs, but created a need for word processors.

An occupational title does not give details about the occupation. An individual starting a career search may want to look at the various occupations in this module, choose any that are of interest and then do further research on the occupation or occupations of choice.

There are other sources of information (listed below) about specific occupations and the details, such as skills and educational requirements, hourly earnings, benefits, working conditions and advancement opportunities.

Industry staffing patterns used for the projections process are developed from the annual OES Survey of employers. The survey utilizes a sample of the entire universe of Unemployment Insurance (UI) covered employers. Because it is a survey, it is important that the following points be considered:

- ✓ There is inherent statistical error as a result of both the sampling process and the level of employer response to the survey mailings.
- ✓ The OES staffing patterns may contain errors because of the problems employers may have in completing the survey. These errors typically include misunderstanding of survey instructions, misinterpretation of occupational definitions and/or titles contained on the forms, and clerical errors in filling out the forms.
- ✓ The employer's response to the survey may reflect conditions that are atypical. The employer may be experiencing a temporary shutdown, seasonal high or low employment, or a temporary increase in demand for his/her product or service.

Occupational projections data indicate the major local occupations and which occupations are likely to offer the greatest number of job opportunities. When possible, the user should focus on larger groups rather than specific occupations. Some occupations may not appear in published tables because of the



very small number of people employed in that area or because of confidentiality concerns.

Although an occupation may be stable and is not expected to grow, it does not mean that there are no opportunities for employment. All occupations have turnover opportunities - individuals change or leave their jobs permanently for varying reasons. High turnover, especially in occupations that require lower-skill levels, would mean that there are frequent openings even though there is little or no growth.

The occupational projections data are prepared for employment and training planners, vocational educators, and others who need information on future employment by occupation. The outlook information can be used in making occupational training decisions and career choices. Employers considering expansion or relocation may find the data helpful in understanding the occupational composition and trends in a county or geographic region.

### **Additional Sources of Information**

For additional information on economic conditions in a particular county, you may contact the Labor Market Information Division's area consultants who are located in the community and are knowledgeable about the economic activities within the counties that they serve, and the local One Stop locations where additional publications on labor market information may be obtained. Other sources of information include:

- Wage And Salary Employment by Industry
- Bureau of Labor Statistics, Occupational Outlook Handbook
- California Occupational Guides
- Bureau of Labor Statistics, Dictionary of Occupational Titles

- California Association for Local Economic Development (CALED)
- Local Chambers of Commerce
- Local Economic Development Organizations
- Local Newspapers
- Standard Industrial Classification Manual

### **Automated Access**

Electronic access to current data is available through the Employment Development Department's Internet address at:

**<http://www.calmis.ca.gov>**

For technical assistance or additional information about the Employment Development Department's Internet website, please call (916) 262-2162 and select option #2. Customers may also call (916) 262-2162 or FAX (916) 262-2443 to order other publications.



# Description Of Industry and Occupational Tables

Employment includes nonagricultural wage and salary workers except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. For the Federal government sector, employment includes all civilian employees regardless of the activities in which they are engaged.

An **industry division** refers to a distinct group of private, public, or nonprofit enterprises engaged in producing goods or providing services. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system. Industries are grouped into ten major categories, according to the economic activity involved. The ten major categories or industry divisions are:

*Agriculture, Forestry, and Fishing (SIC 01-09)* includes establishments primarily engaged in agricultural production, forestry, commercial fishing, hunting and trapping, and related services.

*Mining (SIC 10-14)* includes all establishments involved in the extraction of minerals, crude petroleum, and natural gas. It includes quarrying, well operations, milling, and other related activities.

*Construction (SIC 15-17)* includes establishments engaged in contract construction. This includes new work, additions, alterations, and repairs performed by general and special trade contractors.

*Manufacturing (SIC 20-39)* includes establishments which are usually described as plants, factories, or mills that are engaged in producing or processing non-durable or durable goods. These characteristically use power-driven machines and material-handling equipment.

*Transportation and Public Utilities (SIC 40-49)* includes enterprises engaged in passenger and freight transportation by surface, water, and air and warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio, and television; and the utilities providing gas, electric, and sanitary services.

*Wholesale Trade (SIC 50-51)* includes establishments involved in the selling of merchandise to retailers; to industrial, commercial, farm, construction contractors, or professional business users; or to other wholesalers.

*Retail Trade (SIC 52-59)* includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

*Finance, Insurance, and Real Estate (SIC 60-67)* includes banks, savings and loan institutions, and security and commodity brokerages, insurance agencies and carriers, real estate sales and management offices, and rental and planning agencies.

*Services (SIC 70-89)* includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.

*Government* includes the legislative, judicial, administrative, and regulatory activities of federal, state, local and international governments. It also includes federal, state, and local government hospitals and education.

## Industry Tables

### Employment By Major Industry -Table 1

This table shows 1997 estimated employment and 2004 projected employment along with the percentage of total employment for each major industry division.

### Employment By Industry - Table 2

This table shows employment and projected employment by industry. The number of jobs is estimated for 1997 and projected for 2004. The column entitled "SIC" lists the Standard Industrial Classification code for each industry grouping. The column labeled "Absolute Change" provides the projected change in employment between 1997 and 2004. The "Percent Change" column is the growth rate over the seven-year period.

**Occupational groups** are groups of occupations with similar skills and/or educational requirements, based on the OES groupings. There are over 800 detailed occupations and close to 100 summary level occupations in the Occupational Employment Statistics (OES) classification system. The seven occupational groups are listed below.

*Managers And Administrative* occupations are top and mid-level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of a firm. First-line supervisors are excluded from this category.

*Professional, Paraprofessional, And Technical* occupations are concerned with theoretical or practical aspects of such fields as science, art, education, health, law, and business relations. Professional occupations generally require long and intensive preparation, while technical occupations work closely with professional personnel and are required to have a combination of basic scientific knowledge and specialized education.

*Sales And Related* occupations are concerned with influencing customers to buy commodities, services, real estate, and investments.

*Clerical And Administrative Support* occupations prepare, transcribe, systematize, and preserve written communications and records; distribute information; and collect accounts.

*Service Occupations* prepare and serve food and drink; provide lodging and related services; provide grooming, cosmetic, and other personal and health care services; maintain and clean clothing and other wearing apparel; provide protection for people and property; attend to the comfort or requests of patrons of amusement and recreation facilities; and perform cleaning and maintenance services in the interiors of buildings.

*Agricultural, Forestry, And Fishing* occupations in this report include only forestry workers, nursery workers, animal caretakers, and gardeners and groundskeepers.

*Production, Construction, Operating, Maintenance, and Material Handling* are skilled, semi-skilled, and unskilled workers performing machine and manual tasks involving production, construction, operating maintenance, repair, and material handling operations.

## Occupational Tables

### Employment By Major Occupational Group - Table 3

This table shows 1997 and 2004 employment and projected employment for the seven major occupational groups. The "Percent of Total" column displays the percentage of total employment each major occupational group represents. The "Absolute Change" column gives the number of job opportunities resulting from the creation of new jobs. "Percent Change" shows the percentage change for each occupational group.



#### **Occupations With The Greatest Absolute Job Growth - Table 4**

This table lists the 50 occupations that are projected to register the largest absolute change between 1997 and 2004. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 1997-2004 period.

#### **Occupations With The Fastest Job Growth - Table 5**

This table lists the 50 occupations with the greatest projected percentage increases. It provides a different perspective to future occupational employment changes. It is important to note that some of these occupations are increasing rapidly from relatively small employment levels and are not necessarily found in Table 4.

#### **Occupational Employment Projections - Table 6**

This table provides occupational detail for up to 800 occupations. Annual average employment in each occupation is shown for 1997 and 2004. The column headed "Absolute Change" presents the number of job opportunities resulting from the creation of new jobs. The "Percent Change" column shows the percentage change for each occupation. The next column, "Openings Due to Separations", shows job opportunities that are created by workers leaving the occupation. Also included in this table is the Occupational Employment Statistics (OES) codes column. It shows the distinctive California OES code for each occupational title.

Each occupation in Table 6 is identified by a line number. The Alphabetical Index of Occupations section found in this module may be used to locate individual occupations in the detailed

table. The same line numbers are used in all area reports for 1997-2004. Line numbers may be different for other time periods. Not all line numbers appear in all counties; missing line numbers indicate occupations with no employment or employment below the area's cutoff point for publishing.

#### **Occupations With The Most Openings - Table 7 (Growth Plus Separations)**

This table lists the occupations that are projected to register the largest absolute growth and separations between 1997 and 2004. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new job openings over the 1997-2004 period.

#### **Occupations With Projected Decline - Table 8**

This table lists the occupations that are projected to decline over the 1997-2004 time period. Declining employment is a sign that the occupation has no growth. However, turnover may result in some job opportunities.

# Training Level Definitions

Occupational training and education classifications were developed by the Bureau of Labor Statistics to improve on prior classification systems that did not distinguish between occupations with comparable educational requirements. For example, neither carpenters nor laborers require formal education beyond high school, but the complexity of the work and the training time required results in carpenters being placed in the long-term on-the-job training category and laborers placed in the short-term on-the-job training category. Of course there is more than one way to qualify for a job. In this classification system, the education and training required reflects the manner in which most workers become proficient in that occupation and the preferences of most employers.

**1. First professional degree.** Occupations that require at least two years of full-time academic study beyond a bachelor's degree (for example, law, medicine, dentistry and clergy).

**2. Doctoral degree.** Occupations that require at least three years of full-time academic study beyond a bachelor's degree culminating in a doctoral degree.

**3. Master's degree.** Occupations that require the completion of a master's degree program which is usually one to two years beyond a bachelor's degree.

**4. Bachelor's or higher and some work experience.** Occupations that generally require work experience in an occupation requiring a bachelor's or higher degree. Most occupations in this category are managerial occupations that require work experience in a related non-managerial occupation.

**5. Bachelor's degree.** Occupations that require the completion of at least 4 but not more than 5 years of full-time academic study beyond high school resulting in a Bachelor's degree.

**6. Associate degree.** Occupations that require the completion of at least 2 years of full-time academic study beyond high school.

**7. Post-secondary vocational education.** Occupations that require completion of vocational school training.

**8. Work experience.** Occupations that require skills obtained through work experience in a related occupation.

**9. Long-term on-the-job training.** Occupations that require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to develop the skills needed for average job performance.

**10. Moderate-term on-the-job training.** Occupations in which workers can develop average job performance after 1 to 12 months of combined on-the-job experience and informal training.

**11. Short-term on-the-job-training.** Occupations in which workers can develop skills needed after a short demonstration or up to one month of on-the-job experience and instruction.



# Industry Trends and Outlook

San Joaquin County will continue to experience employment growth between 1997 and 2004 as the region's economy continues to expand and diversify. The total number of nonfarm wage and salary employment is expected to increase by 37,500 jobs during the seven-year projection period, an increase of 22.4 percent. San Joaquin County's growth will be fueled by a number of factors, including: a strategic location, a strong state economy, affordable land, population growth, and spill-over business expansions from California's Bay Area to the Central Valley. Employment gains are anticipated across all major industry divisions with the largest absolute increases occurring in **services, trade and government**.

The **services** industry will grow by approximately 13,400 jobs, a gain of 32.4 percent. The largest gains are expected to occur in the business and health services sectors. Business services will expand rapidly by 5,600 jobs, largely due to gains in personnel supply services and increased demand for computer programming, data processing, and other computer services, including those related to the Internet and electronic commerce. Health services jobs will continue to expand, adding 2,600 jobs to serve the rapidly expanding population. Likewise, substantial gains are anticipated in a variety of other services, that include:

personal and professional services, hotels and lodging, engineering, accounting, child care, job training, legal, landscaping, and automotive repair services. Modest job gains are also anticipated in amusement services and private education.

The **retail trade** industry is expected to produce 7,400 jobs during the projection period, a result of population growth and overall job creation in other industries. The opening of new eating and drinking establishments, expansion of large retailers, and growth of food and drug stores are anticipated to expand more rapidly in the growing communities of San Joaquin County adjacent to Interstates 5, 205, and 580. The wholesale trade industry is expected to add 1,200 jobs, as the suppliers of goods and services will likely expand to support the production and distribution of local manufacturing employers.

One of the largest industry divisions, **government** will likely add 5,900 jobs during the seven-year projection period. While federal government jobs are not expected to expand, the local government segment will. By far, most of the job gains will be due to increases in local education payrolls in response to a rapidly expanding school age population and to accommodate smaller classroom sizes mandated by State legislation. Meanwhile, state government jobs will grow at a modest pace.

The **construction** industry, which has been on the rebound since 1993, is expected to add 3,500 jobs during the projection period. Depending on the duration of the current economic expansion, employment levels will likely peak midway through the projection period and remain stable through 2004. An improved state and local economy, strong job growth, and housing shortages in the Bay Area are driving housing and industrial development throughout the County.

The **transportation, communications** and **public utilities** industries are anticipated to expand by 2,500 jobs. Most of the gains will occur in the transportation segment as the County's central location is a hub of trucking and warehouse distribution operations, serving the larger western markets connected by Interstates 5 and 580. Modest gains are anticipated in the communications and public utilities segments.

Of all the major industries, **finance, insurance and real estate** stands out as one that has experienced rapid changes during the last decade, mostly due to mergers and restructuring in the finance sector during the mid-1990s. The finance, insurance and real estate industries will add approximately 1,900 jobs during the projection period. Much of the growth is anticipated to be call centers, and data processing services for finance and insurance sectors. The real estate sector will also expand as the State and regional economic conditions remain

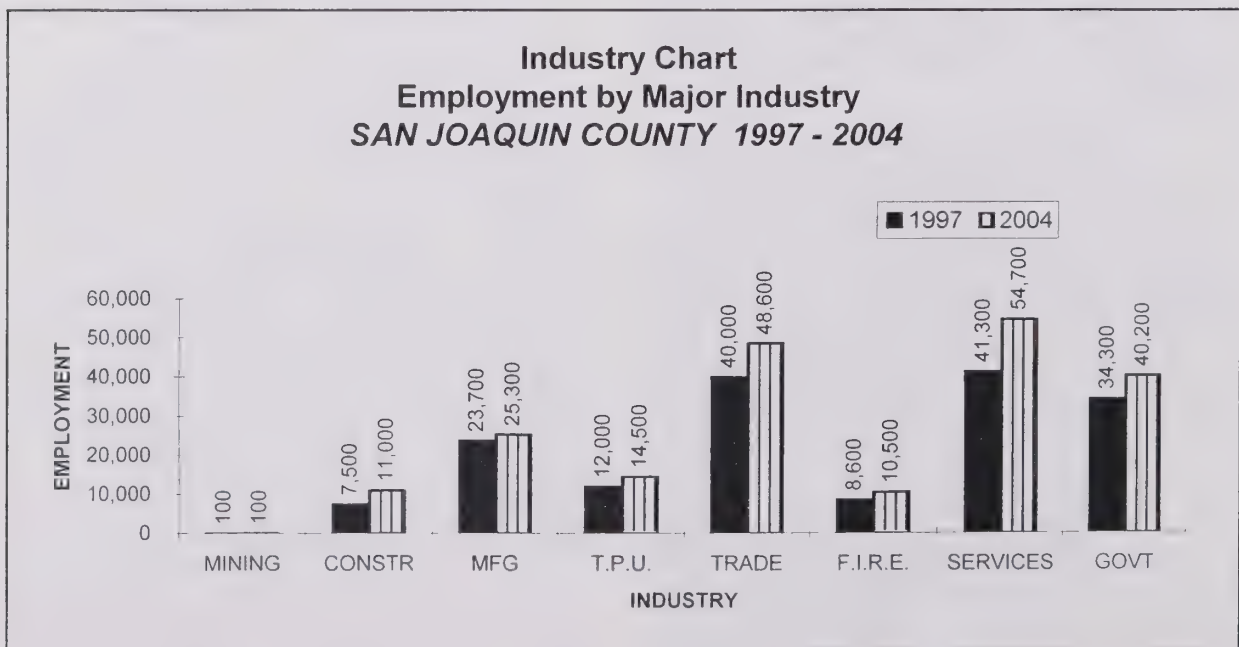
strong, particularly the Bay Area economy, where home prices have soared, driving up demand in San Joaquin County for affordable housing.

In recent decades, the **manufacturing** industry has slowly expanded and diversified. Once dominated by nondurable goods production, particularly food processing, the industry is slowly changing, and will eventually employ more workers in the durable goods producing segments. **Manufacturing** is expected to add 1,600 jobs during the seven-year projection period. The nondurable goods sector is expected to decline due to ongoing cutbacks in food processing activities.

**Table 1**  
**Employment By Major Industry (1)**  
**1997 - 2004 Annual Averages**  
**SAN JOAQUIN COUNTY**

INDUSTRY	1997 (2)	PERCENT OF TOTAL	2004	PERCENT OF TOTAL
TOTAL NONFARM	167,400	100.0%	204,900	100.0%
MINING	100	0.1%	100	0.0%
CONSTRUCTION	7,500	4.5%	11,000	5.4%
MANUFACTURING	23,700	14.2%	25,300	12.3%
TRANSPORTATION & PUBLIC UTILITIES	12,000	7.2%	14,500	7.1%
TRADE	40,000	23.9%	48,600	23.7%
FINANCE, INSURANCE, & REAL ESTATE	8,600	5.1%	10,500	5.1%
SERVICES	41,300	24.7%	54,700	26.7%
GOVERNMENT	34,300	20.5%	40,200	19.6%

- (1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.
- (2) March 1998 benchmark.





**Table 2**  
**Industry Employment Projections (1)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1997 (2)	2004		
<b>TOTAL NONFARM</b>	<b>10-99(ex 88), 074,075,078</b>	<b>167,400</b>	<b>204,900</b>	<b>37,500</b>	<b>22.4%</b>
<b>GOODS PRODUCING</b>	<b>10-39</b>	<b>31,300</b>	<b>36,400</b>	<b>5,100</b>	<b>16.3%</b>
<b>MINING</b>	<b>10-14</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>0.0%</b>
<b>CONSTRUCTION</b>	<b>15-17</b>	<b>7,500</b>	<b>11,000</b>	<b>3,500</b>	<b>46.7%</b>
<b>MANUFACTURING</b>	<b>20-39</b>	<b>23,700</b>	<b>25,300</b>	<b>1,600</b>	<b>6.8%</b>
Durable Goods	24,25,32-39	10,800	13,000	2,200	20.4%
Lumber, Wood, & Furniture	24,25	3,000	3,700	700	23.3%
Primary & Fabricated Metal	33,34	2,300	3,200	900	39.1%
Machinery & Electric Equipment	35,36	2,200	2,300	100	4.5%
Other Durable Goods		3,200	3,800	600	18.8%
Nondurable Goods	20-23,26-31	12,900	12,300	-600	-4.7%
Food & Kindred Products	20	8,100	6,700	-1,400	-17.3%
Preserved Fruits & Vegetables	203	3,900	2,700	-1,200	-30.8%
Other Food & Kindred Products	20X	4,100	4,000	-100	-2.4%
Paper, Printing & Publishing	26,27	2,400	2,600	200	8.3%
Other Nondurable Goods		2,500	3,000	500	20.0%
<b>SERVICE PRODUCING</b>	<b>40-99(ex 88), 074,075,078</b>	<b>136,100</b>	<b>168,500</b>	<b>32,400</b>	<b>23.8%</b>
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>40-42,44-49</b>	<b>12,000</b>	<b>14,500</b>	<b>2,500</b>	<b>20.8%</b>
Transportation	40-42,44-47	9,400	11,600	2,200	23.4%
Trucking & Warehousing	42	7,300	9,300	2,000	27.4%
Other Transportation		2,100	2,300	200	9.5%
Communications & Public Utilities	48,49	2,600	2,900	300	11.5%
Communications	48	1,300	1,600	300	23.1%
Electric, Gas & Sanitary Services	49	1,200	1,300	100	8.3%
<b>TRADE</b>	<b>50-59</b>	<b>40,000</b>	<b>48,600</b>	<b>8,600</b>	<b>21.5%</b>
Wholesale Trade	50,51	8,700	9,900	1,200	13.8%
Wholesale--Durable	50	4,000	4,800	800	20.0%
Wholesale--Nondurable	51	4,700	5,100	400	8.5%
Retail Trade	52-59	31,300	38,700	7,400	23.6%
General Merchandise & Apparel	53,56	5,400	6,900	1,500	27.8%
Food Stores	54	4,400	6,400	2,000	45.5%
Eating & Drinking Places	58	10,700	13,100	2,400	22.4%
Other Retail Trade		10,800	12,300	1,500	13.9%
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	<b>60-65,67</b>	<b>8,600</b>	<b>10,500</b>	<b>1,900</b>	<b>22.1%</b>
Finance	60-62,67	3,600	4,200	600	16.7%
Other Finance, Insurance & Real Estate		4,900	6,300	1,400	28.6%



**Table 2**  
**Industry Employment Projections (1)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1997 (2)	2004		
<b>SERVICES</b>	<b>70-89,</b>	<b>41,300</b>	<b>54,700</b>	<b>13,400</b>	<b>32.4%</b>
	<b>074,075,078</b>				
Business Services	73	8,300	13,900	5,600	67.5%
Amusement, Including Movies	78,79	2,200	3,000	800	36.4%
Health Services	80	13,300	15,900	2,600	19.5%
Private Educational Services	82	3,300	4,000	700	21.2%
Other Services		14,200	17,900	3,700	26.1%
<b>GOVERNMENT</b>		<b>34,300</b>	<b>40,200</b>	<b>5,900</b>	<b>17.2%</b>
Federal Government		4,600	4,600	0	0.0%
State & Local Government		29,700	35,600	5,900	19.9%
State Government		4,200	4,800	600	14.3%
Local Government		25,500	30,800	5,300	20.8%
Local Education		14,400	18,000	3,600	25.0%
Local Noneducation		11,100	12,800	1,700	15.3%

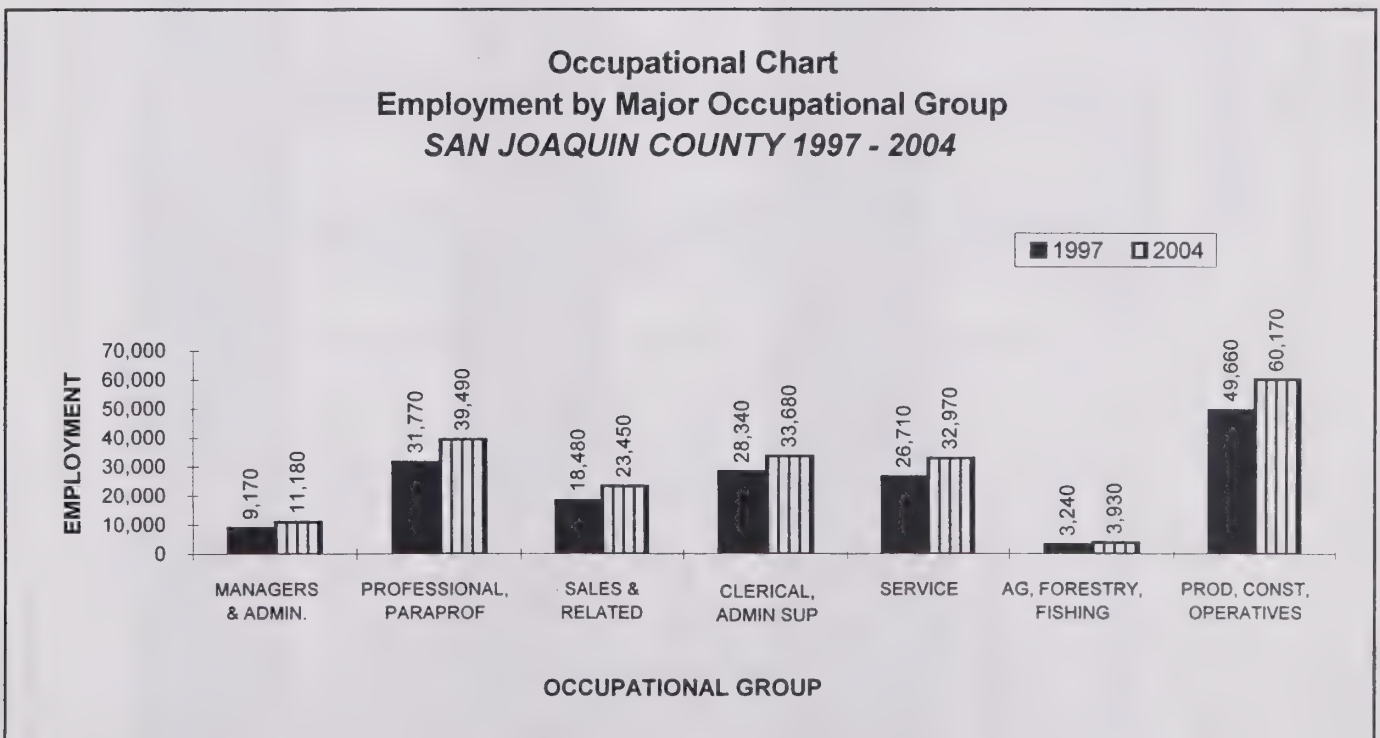
(1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.

(2) March 1998 benchmark.

**Table 3**  
**Employment by Major Occupational Group**  
**1997 - 2004 Annual Averages**  
**SAN JOAQUIN COUNTY**

OCCUPATIONAL GROUP	1997	PERCENT OF TOTAL	2004	PERCENT OF TOTAL	ABSOLUTE CHANGE	PERCENT CHANGE
TOTAL, ALL OCCUPATIONS (1)	167,400	100.0%	204,900	100.0%	37,500	22.4%
MANAGERS AND ADMIN OCCUPATIONS	9,170	5.5%	11,180	5.5%	2,010	21.9%
PROFESSIONAL, PARAPROF, TECHNICAL	31,770	19.0%	39,490	19.3%	7,720	24.3%
SALES AND RELATED OCCUPATIONS	18,480	11.0%	23,450	11.4%	4,970	26.9%
CLERICAL, ADMINISTRATIVE SUPPORT	28,340	16.9%	33,680	16.4%	5,340	18.8%
SERVICE OCCUPATIONS	26,710	16.0%	32,970	16.1%	6,260	23.4%
AGRICULTURAL, FORESTRY, FISHING	3,240	1.9%	3,930	1.9%	690	21.3%
PROD, CONST, OPER, MAT HANDLING	49,660	29.7%	60,170	29.4%	10,510	21.2%

(1) Total is based on the March 1998 benchmark.



**Table 4**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1997(2)	2004				
49023	CASHIERS	4,150	5,510	1,360	32.8%	11	SHORT-TERM ON-THE-JOB TRAINING
49011	SALESPERSONS, RETAIL	5,440	6,740	1,300	23.9%	11	SHORT-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	4,590	5,880	1,290	28.1%	11	SHORT-TERM ON-THE-JOB TRAINING
55347	GENERAL OFFICE CLERKS	3,670	4,600	930	25.3%	11	SHORT-TERM ON-THE-JOB TRAINING
19005	GENERAL MANAGERS, TOP EXECUTIVES	3,660	4,530	870	23.8%	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
31308	TEACHERS--SECONDARY SCHOOL	2,530	3,280	750	29.6%	5	BACHELOR'S DEGREE
31305	TEACHERS--ELEMENTARY SCHOOL	3,130	3,790	660	21.1%	5	BACHELOR'S DEGREE
98902	HAND PACKERS AND PACKAGERS	1,670	2,330	660	39.5%	11	SHORT-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	1,920	2,570	650	33.9%	11	SHORT-TERM ON-THE-JOB TRAINING
65008	WAITERS AND WAITRESSES	2,400	2,940	540	22.5%	11	SHORT-TERM ON-THE-JOB TRAINING
32502	REGISTERED NURSES	2,710	3,240	530	19.6%	6	ASSOCIATE DEGREE
55305	RECEPTIONISTS, INFORMATION CLERKS	1,920	2,450	530	27.6%	11	SHORT-TERM ON-THE-JOB TRAINING
58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	1,700	2,210	510	30.0%	11	SHORT-TERM ON-THE-JOB TRAINING
65041	COMBINED FOOD PREP AND SERVICE	2,280	2,780	500	21.9%	11	SHORT-TERM ON-THE-JOB TRAINING
67005	JANITORS, CLEANERS--EXCEPT MAIDS	2,600	3,100	500	19.2%	11	SHORT-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	1,320	1,810	490	37.1%	6	ASSOCIATE DEGREE
79041	LABORERS, LANDSCAPING/GRNDSKEEPING	1,770	2,250	480	27.1%	11	SHORT-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	1,260	1,720	460	36.5%	11	SHORT-TERM ON-THE-JOB TRAINING
87102	CARPENTERS	1,000	1,460	460	46.0%	9	LONG-TERM ON-THE-JOB TRAINING
49021	STOCK CLERKS--SALES FLOOR	1,830	2,270	440	24.0%	11	SHORT-TERM ON-THE-JOB TRAINING
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	1,790	2,210	420	23.5%	11	SHORT-TERM ON-THE-JOB TRAINING
93956	ASSEMB, FABRICATORS--EX MACH,ELECTRIC	1,280	1,690	410	32.0%	11	SHORT-TERM ON-THE-JOB TRAINING
27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	1,390	1,770	380	27.3%	5	BACHELOR'S DEGREE
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	1,100	1,450	350	31.8%	11	SHORT-TERM ON-THE-JOB TRAINING
65026	COOKS--RESTAURANT	1,350	1,680	330	24.4%	9	LONG-TERM ON-THE-JOB TRAINING
97947	INDUSTRIAL TRUCK,TRACTOR OPERATORS	1,830	2,160	330	18.0%	11	SHORT-TERM ON-THE-JOB TRAINING
85132	MAINT REPAIRERS, GENL UTILITY	1,900	2,220	320	16.8%	9	LONG-TERM ON-THE-JOB TRAINING
49017	COUNTER AND RENTAL CLERKS	680	980	300	44.1%	11	SHORT-TERM ON-THE-JOB TRAINING
31311	TEACHERS--SPECIAL EDUCATION	770	1,060	290	37.7%	5	BACHELOR'S DEGREE
55108	SECRETARIES, GENERAL	2,410	2,700	290	12.0%	7	POST-SECONDARY VOCATIONAL EDUCATION



**Table 4**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1997(2)	2004				
87202	ELECTRICIANS	740	1,020	280	37.8%	9	LONG-TERM ON-THE-JOB TRAINING
63017	CORRECTION OFFICERS, JAILERS	920	1,180	260	28.3%	9	LONG-TERM ON-THE-JOB TRAINING
55338	BOOKKEEPING, ACCOUNTING CLERKS	2,520	2,770	250	9.9%	10	MODERATE-TERM ON-THE-JOB TRAINING
65038	FOOD PREPARATION WORKERS	1,460	1,710	250	17.1%	11	SHORT-TERM ON-THE-JOB TRAINING
27308	HUMAN SERVICES WORKERS	780	1,010	230	29.5%	10	MODERATE-TERM ON-THE-JOB TRAINING
66011	HOME HEALTH CARE WORKERS	530	760	230	43.4%	11	SHORT-TERM ON-THE-JOB TRAINING
91321	MACH FORMING OPS, TENDRS-MET, PLASTIC	420	650	230	54.8%	10	MODERATE-TERM ON-THE-JOB TRAINING
98312	HELPERS-CARPENTERS AND RELATED	320	550	230	71.9%	11	SHORT-TERM ON-THE-JOB TRAINING
53123	ADJUSTMENT CLERKS	540	750	210	38.9%	11	SHORT-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	690	900	210	30.4%	9	LONG-TERM ON-THE-JOB TRAINING
85302	AUTOMOTIVE MECHANICS	1,060	1,270	210	19.8%	9	LONG-TERM ON-THE-JOB TRAINING
13002	FINANCIAL MANAGERS	850	1,050	200	23.5%	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
21114	ACCOUNTANTS AND AUDITORS	950	1,140	190	20.0%	5	BACHELOR'S DEGREE
67002	MAIDS AND HOUSEKEEPING CLEANERS	840	1,020	180	21.4%	11	SHORT-TERM ON-THE-JOB TRAINING
81005	FIRST-LINE SUP/MGR-CONSTRUCTION	390	570	180	46.2%	8	WORK EXPERIENCE
87402	PAINTERS, PAPERHANGERS-CONST	420	600	180	42.9%	10	MODERATE-TERM ON-THE-JOB TRAINING
93914	WELDERS AND CUTTERS	830	1,010	180	21.7%	7	POST-SECONDARY VOCATIONAL EDUCATION
25102	SYSTEMS ANALYSTS-ELEC DATA PROC	210	380	170	81.0%	5	BACHELOR'S DEGREE
49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	1,180	1,350	170	14.4%	10	MODERATE-TERM ON-THE-JOB TRAINING
66002	DENTAL ASSISTANTS	670	830	160	23.9%	10	MODERATE-TERM ON-THE-JOB TRAINING
TOTAL OF THESE OCCUPATIONS		82,370	103,900	21,530	26.1%		

(1) Excludes not elsewhere classified (NEC) categories

(2) March 1998 Benchmark



**Table 5**  
**Occupations With The Fastest Job Growth (1)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1997(2)	2004				
25102	SYSTEMS ANALYSTS--ELEC DATA PROC	210	380	170	81.0%	5	BACHELOR'S DEGREE
98312	HELPERS--CARPENTERS AND RELATED	320	550	230	71.9%	11	SHORT-TERM ON-THE-JOB TRAINING
25104	COMPUTER SUPPORT SPECIALISTS	210	330	120	57.1%	5	BACHELOR'S DEGREE
91321	MACH FORMING OPS,TENDRS--MET, PLASTIC	420	650	230	54.8%	10	MODERATE-TERM ON-THE-JOB TRAINING
25105	COMPUTER PROGRAMMERS	140	210	70	50.0%	5	BACHELOR'S DEGREE
91714	METAL FABRICATOR, STRUCT MET PRODS	330	490	160	48.5%	10	MODERATE-TERM ON-THE-JOB TRAINING
43017	SALES AGENTS--SEL BUS SERVICES	170	250	80	47.1%	10	MODERATE-TERM ON-THE-JOB TRAINING
81005	FIRST-LINE SUP/MGR-CONSTRUCTION	390	570	180	46.2%	8	WORK EXPERIENCE
87102	CARPENTERS	1,000	1,460	460	46.0%	9	LONG-TERM ON-THE-JOB TRAINING
21902	COST ESTIMATORS	200	290	90	45.0%	8	WORK EXPERIENCE
15017	CONSTRUCTION MANAGERS	270	390	120	44.4%	5	BACHELOR'S DEGREE
49017	COUNTER AND RENTAL CLERKS	680	980	300	44.1%	11	SHORT-TERM ON-THE-JOB TRAINING
87814	STRUCTURAL METAL WORKERS	160	230	70	43.8%	9	LONG-TERM ON-THE-JOB TRAINING
97938	GRADER, DOZER, SCRAPER OPERATORS	160	230	70	43.8%	10	MODERATE-TERM ON-THE-JOB TRAINING
66011	HOME HEALTH CARE WORKERS	530	760	230	43.4%	11	SHORT-TERM ON-THE-JOB TRAINING
87402	PAINTERS, PAPERHANGERS--CONST	420	600	180	42.9%	10	MODERATE-TERM ON-THE-JOB TRAINING
87311	CONCRETE AND TERRAZZO FINISHERS	260	370	110	42.3%	9	LONG-TERM ON-THE-JOB TRAINING
31212	HEALTH ASSESS & TREAT TEACHERS, POS	220	310	90	40.9%	2	DOCTORAL DEGREE
85902	HEATING, AC, REFRIG MECHANICS	350	490	140	40.0%	9	LONG-TERM ON-THE-JOB TRAINING
87808	ROOFERS	250	350	100	40.0%	10	MODERATE-TERM ON-THE-JOB TRAINING
87108	DRYWALL INSTALLERS	150	210	60	40.0%	10	MODERATE-TERM ON-THE-JOB TRAINING
98902	HAND PACKERS AND PACKAGERS	1,670	2,330	660	39.5%	11	SHORT-TERM ON-THE-JOB TRAINING
89132	SHEET METAL WORKERS	230	320	90	39.1%	10	MODERATE-TERM ON-THE-JOB TRAINING
53123	ADJUSTMENT CLERKS	540	750	210	38.9%	11	SHORT-TERM ON-THE-JOB TRAINING
87202	ELECTRICIANS	740	1,020	280	37.8%	9	LONG-TERM ON-THE-JOB TRAINING
31311	TEACHERS--SPECIAL EDUCATION	770	1,060	290	37.7%	5	BACHELOR'S DEGREE
31211	HEALTH DIAGNOSTICS TEACHERS, POSTSEC	160	220	60	37.5%	2	DOCTORAL DEGREE
31521	TEACHER AIDES, PARAPROFESSIONAL	1,320	1,810	490	37.1%	6	ASSOCIATE DEGREE
32302	RESPIRATORY CARE PRACTITIONERS	190	260	70	36.8%	6	ASSOCIATE DEGREE
53508	BILL AND ACCOUNT COLLECTORS	190	260	70	36.8%	11	SHORT-TERM ON-THE-JOB TRAINING



**Table 5**  
**Occupations With The Fastest Job Growth (1)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1997(2)	2004				
56017	DATA ENTRY KEYERS--EX COMPOSING	410	560	150	36.6%	7	POST-SECONDARY VOCATIONAL EDUCATION
63047	GUARDS AND WATCH GUARDS	1,260	1,720	460	36.5%	11	SHORT-TERM ON-THE-JOB TRAINING
31321	INSTRUCTORS AND COACHES--SPORTS	280	380	100	35.7%	10	MODERATE-TERM ON-THE-JOB TRAINING
13017	ENGINEER, MATH, AND NAT SCI MGRS	170	230	60	35.3%	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
66005	MEDICAL ASSISTANTS	410	550	140	34.1%	10	MODERATE-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	1,920	2,570	650	33.9%	11	SHORT-TERM ON-THE-JOB TRAINING
53302	INS ADJUST, EXAMIN, INVESTIGATORS	360	480	120	33.3%	9	LONG-TERM ON-THE-JOB TRAINING
67008	PEST CONTROLLERS AND ASSISTANTS	150	200	50	33.3%	10	MODERATE-TERM ON-THE-JOB TRAINING
49023	CASHIERS	4,150	5,510	1,360	32.8%	11	SHORT-TERM ON-THE-JOB TRAINING
68014	AMUSEMENT, RECREATION ATTENDANTS	400	530	130	32.5%	11	SHORT-TERM ON-THE-JOB TRAINING
93956	ASSEMB, FABRICATORS--EX MACH,ELECTRIC	1,280	1,690	410	32.0%	11	SHORT-TERM ON-THE-JOB TRAINING
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	1,100	1,450	350	31.8%	11	SHORT-TERM ON-THE-JOB TRAINING
65023	BUTCHERS AND MEAT CUTTERS	220	290	70	31.8%	9	LONG-TERM ON-THE-JOB TRAINING
87502	PLUMBERS, PIPEFITTERS, STEAMFITTER	290	380	90	31.0%	9	LONG-TERM ON-THE-JOB TRAINING
43002	SALES AGENTS, PLACERS--INSURANCE	260	340	80	30.8%	9	LONG-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	690	900	210	30.4%	9	LONG-TERM ON-THE-JOB TRAINING
15008	MEDICINE, HEALTH SERVICES MGRS	230	300	70	30.4%	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
27302	SOCIAL WORKERS--MED, PSYCHIATRIC	230	300	70	30.4%	3	MASTER'S DEGREE
58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	1,700	2,210	510	30.0%	11	SHORT-TERM ON-THE-JOB TRAINING
15011	PROPERTY AND REAL ESTATE MANAGERS	200	260	60	30.0%	5	BACHELOR'S DEGREE
TOTAL OF THESE OCCUPATIONS		28,360	38,980	10,620	37.4%		

(1) Excludes not elsewhere classified (NEC) categories and occupations of less than 200 in 2004.

(2) March 1998 Benchmark

**Table 6**  
**Occupational Employment Projections (1)**  
**1997 -2004**  
**SAN JOAQUIN COUNTY**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
1		TOTAL, ALL OCCUPATIONS	167,400	204,900	37,500	22.4	32,020		
2	10000	MGRS AND ADMIN OCCUPATIONS	9,170	11,180	2,010	21.9	1,220		
3	13002	FINANCIAL MANAGERS	850	1,050	200	23.5	100	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
4	13005	PERS, TRAINING, LABOR-REL MGRS	280	340	60	21.4	50	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
5	13008	PURCHASING MANAGERS	220	250	30	13.6	40	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
6	13011	MKTING, ADV, PUB-REL MANAGERS	380	480	100	26.3	40	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
7	13014	ADMINISTRATIVE SERVICES MANAGERS	370	430	60	16.2	50	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
8	13017	ENGINEER, MATH, AND NAT SCI MGRS	170	230	60	35.3	20	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
10	15005	EDUCATION ADMINISTRATORS	440	530	90	20.5	80	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
11	15008	MEDICINE, HEALTH SERVICES MGRS	230	300	70	30.4	30	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
12	15011	PROPERTY AND REAL ESTATE MANAGERS	200	260	60	30.0	20	5	BACHELOR'S DEGREE
13	15014	INDUSTRIAL PRODUCTION MANAGERS	270	320	50	18.5	30	5	BACHELOR'S DEGREE
14	15017	CONSTRUCTION MANAGERS	270	390	120	44.4	40	5	BACHELOR'S DEGREE
16	15023	COMM, TRANS, UTIL OPER MGRS	280	320	40	14.3	40	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
17	15026	FOOD SERVICE AND LODGING MANAGERS	400	480	80	20.0	50	8	WORK EXPERIENCE
20	19002	PUB ADMIN CHIEF EXECES, LEGISLATORS	150	160	10	6.7	30	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
21	19005	GENERAL MANAGERS, TOP EXECUTIVES	3,660	4,530	870	23.8	480	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
22	19999	MANAGERS AND ADMINISTRATORS, NEC	1,000	1,110	110	11.0	120	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
23	20000	PROFESSIONAL, PARAPROF, TECHNICAL	31,770	39,490	7,720	24.3	4,780		
24	21000	MANAGEMENT SUPPORT OCCUPATIONS	4,140	5,030	890	21.5	600		
25	21100	ACCOUNTANTS, AUDIT, FINANCE SPECS	1,830	2,230	400	21.9	260		
26	21102	UNDERWRITERS	110	120	10	9.1	20	5	BACHELOR'S DEGREE
28	21108	LOAN OFFICERS AND COUNSELORS	380	470	90	23.7	60	5	BACHELOR'S DEGREE



**Table 6**  
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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
29	21111	TAX PREPARERS	170	220	50	29.4	30	11	SHORT-TERM ON-THE-JOB TRAINING
30	21114	ACCOUNTANTS AND AUDITORS	950	1,140	190	20.0	110	5	BACHELOR'S DEGREE
32	21199	FINANCIAL SPECIALISTS, NEC	220	280	60	27.3	40	5	BACHELOR'S DEGREE
33	21300	PURCHASING AGENTS AND BUYERS	330	360	30	9.1	60		
34	21302	WHLE AND RET BUYERS--EX FARM PRODS	110	120	10	9.1	20	5	BACHELOR'S DEGREE
35	21305	PURCH AGTS AND BUYERS--FARM PRODS	70	70	0	0.0	10	8	WORK EXPERIENCE
36	21308	PURCH AGTS--EX WHLE,RET,FARM PRODS	150	170	20	13.3	30	5	BACHELOR'S DEGREE
37	21500	PERS, TRAINING, LAB-REL SPECS	370	470	100	27.0	80		
40	21508	EMPL INTERVIEWERS--PRIV OR PUB	50	70	20	40.0	10	5	BACHELOR'S DEGREE
41	21511	PERS, TRAINING, LAB-REL SPECS, NEC	320	400	80	25.0	70	5	BACHELOR'S DEGREE
42	21900	OTHER MANAGEMENT SUPPORT WORKERS	1,610	1,970	360	22.4	200		
43	21902	COST ESTIMATORS	200	290	90	45.0	20	8	WORK EXPERIENCE
44	21905	MANAGEMENT ANALYSTS	260	330	70	26.9	20	3	MASTER'S DEGREE
45	21908	CONST AND BUILDING INSPECTORS	80	100	20	25.0	20	8	WORK EXPERIENCE
46	21911	COMPL, ENFORCE INSPECT--EX CONST	260	300	40	15.4	30	8	WORK EXPERIENCE
50	21999	MANAGEMENT SUPPORT WORKERS, NEC	810	950	140	17.3	110	5	BACHELOR'S DEGREE
51	22000	ENGINEERS, ARCHITECTS, SURVEYORS	1,620	1,940	320	19.8	270		
52	22100	ENGINEERS	700	880	180	25.7	100		
59	22121	CIVIL ENGINEERS--INCLUDING TRAFFIC	240	270	30	12.5	30	5	BACHELOR'S DEGREE
61	22126	ELECT AND ELECTRONIC ENGINEERS	90	120	30	33.3	20	5	BACHELOR'S DEGREE
62	22127	COMPUTER ENGINEERS	90	100	10	11.1	0	5	BACHELOR'S DEGREE
63	22128	INDUST ENGINEERS--EXCEPT SAFETY	80	90	10	12.5	10	5	BACHELOR'S DEGREE
65	22135	MECHANICAL ENGINEERS	60	110	50	83.3	10	5	BACHELOR'S DEGREE
67	22199	ENGINEERS, NEC	140	190	50	35.7	30	5	BACHELOR'S DEGREE
68	22300	ARCHITECTS AND SURVEYORS	80	90	10	12.5	10		
72	22311	SURVEYING AND MAPPING SCIENTISTS	80	90	10	12.5	10	5	BACHELOR'S DEGREE



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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
73	22500	ENGINEERING, RELATED TECHNICIANS	840	970	130	15.5	160		
74	22502	CIVIL ENGINEERING TECHNICIANS	80	100	20	25.0	20	6	ASSOCIATE DEGREE
75	22505	ELECT, ELECTRONIC ENGINEERING TECHS	110	130	20	18.2	20	6	ASSOCIATE DEGREE
77	22511	MECHANICAL ENGINEERING TECHS	60	80	20	33.3	10	6	ASSOCIATE DEGREE
78	22514	DRAFTERS	280	330	50	17.9	50	7	POST-SECONDARY VOCATIONAL EDUCATION
80	22521	SURVEYING AND MAPPING TECHS	60	60	0	0.0	10	7	POST-SECONDARY VOCATIONAL EDUCATION
81	22599	ENGINEERING, RELATED TECHS, NEC	250	270	20	8.0	50	6	ASSOCIATE DEGREE
82	24000	NAT SCIENTISTS AND RELATED WORKERS	360	420	60	16.7	60		
83	24100	PHYSICAL SCIENTISTS	120	160	40	33.3	20		
85	24105	CHEMISTS, EXCEPT BIOCHEMISTS	70	80	10	14.3	10	5	BACHELOR'S DEGREE
87	24111	GEOLOGIST, GEOPHYS, OCEANOGRAPHERS	50	80	30	60.0	10	5	BACHELOR'S DEGREE
95	24500	PHYSICAL, LIFE SCIENCE TECHS	240	260	20	8.3	40		
96	24502	BIOLOGICAL,AGRI, FOOD TECHS	50	50	0	0.0	10	6	ASSOCIATE DEGREE
97	24505	CHEM TECHS--EXCEPT HEALTH	80	90	10	12.5	10	6	ASSOCIATE DEGREE
100	24599	PHYSICAL, LIFE SCIENCE TECHS, NEC	110	120	10	9.1	20	6	ASSOCIATE DEGREE
101	25000	COMPUTER, MATH, OPS RESRCH, RELATED	560	920	360	64.3	60		
102	25100	COMPUTER SCIENTISTS AND RELATED	560	920	360	64.3	60		
103	25102	SYSTEMS ANALYSTS--ELEC DATA PROC	210	380	170	81.0	10	5	BACHELOR'S DEGREE
105	25104	COMPUTER SUPPORT SPECIALISTS	210	330	120	57.1	10	5	BACHELOR'S DEGREE
106	25105	COMPUTER PROGRAMMERS	140	210	70	50.0	40	5	BACHELOR'S DEGREE
118	27000	SOCIAL SCI, RECREATION, RELIGIOUS	3,430	4,360	930	27.1	510		
119	27100	SOCIAL SCI--INCL URBAN, REG PLNERS	200	240	40	20.0	30		
121	27105	URBAN AND REGIONAL PLANNERS	60	70	10	16.7	10	3	MASTER'S DEGREE

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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
122	27108	PSYCHOLOGISTS	140	170	30	21.4	20	3	MASTER'S DEGREE
124	27300	OTH SOCIAL SCIENCE RELATED WORKERS	3,050	3,890	840	27.5	450		
125	27302	SOCIAL WORKERS--MED, PSYCHIATRIC	230	300	70	30.4	20	3	MASTER'S DEGREE
126	27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	1,390	1,770	380	27.3	130	5	BACHELOR'S DEGREE
127	27307	RESIDENTIAL COUNSELORS	380	480	100	26.3	70	5	BACHELOR'S DEGREE
128	27308	HUMAN SERVICES WORKERS	780	1,010	230	29.5	170	10	MODERATE-TERM ON-THE-JOB TRAINING
129	27311	RECREATION WORKERS	270	330	60	22.2	60	5	BACHELOR'S DEGREE
130	27500	RELIGIOUS WORKERS	180	230	50	27.8	30		
131	27502	CLERGY	180	230	50	27.8	30	1	FIRST PROFESSIONAL DEGREE
134	28000	LAW AND RELATED OCCUPATIONS	640	820	180	28.1	60		
135	28100	LAWYERS AND RELATED WORKERS	510	620	110	21.6	50		
136	28102	JUDGES AND MAGISTRATES	50	60	10	20.0	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
137	28105	ADJUDICATORS, JUDICIAL REVIEWERS	80	80	0	0.0	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
138	28108	LAWYERS	380	480	100	26.3	30	1	FIRST PROFESSIONAL DEGREE
139	28300	LEGAL ASSTS, TECHS, EX CLERICAL	130	200	70	53.8	10		
141	28305	PARALEGAL PERSONNEL	70	100	30	42.9	10	6	ASSOCIATE DEGREE
144	28399	LEGAL ASSTS, TECHS--EX CLER, NEC	60	100	40	66.7	0	6	ASSOCIATE DEGREE
145	31000	TEACHERS, EDUCATORS, LIBRARIANS	11,400	14,460	3,060	26.8	1,810		
146	31100	POSTSECONDARY TEACHERS	650	880	230	35.4	140		
148	31114	NURSING INSTRUCTORS, POSTSECONDARY	70	90	20	28.6	10	3	MASTER'S DEGREE
151	31202	LIFE SCIENCES TEACHERS, POSTSECOND	140	190	50	35.7	30	2	DOCTORAL DEGREE
155	31211	HEALTH DIAGNOSTICS TEACHERS, POSTSEC	160	220	60	37.5	40	2	DOCTORAL DEGREE
156	31212	HEALTH ASSESS & TREAT TEACHERS, POSTSEC	220	310	90	40.9	50	2	DOCTORAL DEGREE
183	31299	POSTSECONDARY TEACHERS, NEC	60	70	10	16.7	10	2	DOCTORAL DEGREE

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			1997 (2)	2004					
184	31300	OTHER TEACHERS AND INSTRUCTORS	8,910	11,120	2,210	24.8	1,470		
185	31303	TEACHERS, PRESCHOOL	350	440	90	25.7	60	5	BACHELOR'S DEGREE
186	31304	TEACHERS, KINDERGARTEN	460	550	90	19.6	70	5	BACHELOR'S DEGREE
187	31305	TEACHERS--ELEMENTARY SCHOOL	3,130	3,790	660	21.1	530	5	BACHELOR'S DEGREE
188	31308	TEACHERS--SECONDARY SCHOOL	2,530	3,280	750	29.6	630	5	BACHELOR'S DEGREE
189	31311	TEACHERS--SPECIAL EDUCATION	770	1,060	290	37.7	50	5	BACHELOR'S DEGREE
190	31314	TEACHERS--VOC ED AND TRAINING	510	580	70	13.7	40	8	WORK EXPERIENCE
191	31317	INSTRUCTORS--NON-VOC EDUCATION	160	200	40	25.0	10	8	WORK EXPERIENCE
192	31321	INSTRUCTORS AND COACHES--SPORTS	280	380	100	35.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING
194	31399	TEACHERS AND INSTRUCTORS, NEC	720	840	120	16.7	60	3	MASTER'S DEGREE
195	31500	LIBRARIANS, ARCHIVISTS AND RELATED	1,840	2,460	620	33.7	200		
196	31502	LIBRARIANS--PROFESSIONAL	130	150	20	15.4	20	3	MASTER'S DEGREE
200	31514	VOCATIONAL & EDUCATIONAL COUNSELOR	300	380	80	26.7	50	3	MASTER'S DEGREE
201	31517	INSTRUCTIONAL COORDINATORS	90	120	30	33.3	10	5	BACHELOR'S DEGREE
202	31521	TEACHER AIDES, PARAPROFESSIONAL	1,320	1,810	490	37.1	120	6	ASSOCIATE DEGREE
203	32000	HEALTH PRACTITIONERS, TECHS, RELATED	6,700	8,000	1,300	19.4	920		
204	32100	HEALTH DIAGNOSING, TREATING	620	740	120	19.4	80		
205	32102	PHYSICIANS AND SURGEONS	440	540	100	22.7	50	1	FIRST PROFESSIONAL DEGREE
206	32105	DENTISTS	180	200	20	11.1	30	1	FIRST PROFESSIONAL DEGREE
212	32300	THERAPISTS	450	600	150	33.3	60		
213	32302	RESPIRATORY CARE PRACTITIONERS	190	260	70	36.8	20	6	ASSOCIATE DEGREE
215	32308	PHYSICAL THERAPISTS	140	160	20	14.3	20	5	BACHELOR'S DEGREE
217	32314	SPEECH PATHOLOGISTS, AUDIOLOGISTS	120	180	60	50.0	20	3	MASTER'S DEGREE
220	32500	HEALTH CARE MAINTENANCE, TREATING	4,170	4,930	760	18.2	570		
221	32502	REGISTERED NURSES	2,710	3,240	530	19.6	320	6	ASSOCIATE DEGREE
222	32505	LICENSED VOCATIONAL NURSES	630	710	80	12.7	100	7	POST-SECONDARY VOCATIONAL EDUCATION
223	32508	EMERGENCY MEDICAL TECHNICIANS	130	150	20	15.4	20	7	POST-SECONDARY VOCATIONAL EDUCATION



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			1997 (2)	2004					
225	32514	OPTICIANS--DISPENSING, MEASURING	160	180	20	12.5	20	9	LONG-TERM ON-THE-JOB TRAINING
226	32517	PHARMACISTS	280	330	50	17.9	60	5	BACHELOR'S DEGREE
227	32518	PHARMACY TECHNICIANS	160	200	40	25.0	30	10	MODERATE-TERM ON-THE-JOB TRAINING
228	32521	DIETITIANS AND NUTRITIONISTS	100	120	20	20.0	20	5	BACHELOR'S DEGREE
230	32900	OTHER HEALTH PROFS, PARAPROFS	1,460	1,730	270	18.5	210		
231	32902	MED, CLINICAL LAB TECHNOLOGISTS	240	260	20	8.3	20	5	BACHELOR'S DEGREE
232	32905	MED, CLINICAL LAB ASSISTANTS	210	240	30	14.3	20	6	ASSOCIATE DEGREE
233	32908	DENTAL HYGIENISTS	220	270	50	22.7	40	6	ASSOCIATE DEGREE
234	32911	MEDICAL RECORDS TECHNICIANS	90	110	20	22.2	20	6	ASSOCIATE DEGREE
237	32919	RADIOLOGIC TECHNOLOGISTS	240	280	40	16.7	20	6	ASSOCIATE DEGREE
241	32928	SURGICAL TECHNICIANS	60	80	20	33.3	10	7	POST-SECONDARY VOCATIONAL EDUCATION
244	32999	HEALTH CARE PROFS, PARAPROFS, NEC	400	490	90	22.5	80	6	ASSOCIATE DEGREE
245	34000	WRITERS, ARTISTS, ENTER, ATHLETES	550	700	150	27.3	100		
246	34002	WRITERS AND EDITORS	70	90	20	28.6	20	5	BACHELOR'S DEGREE
251	34017	ANNOUNCERS--RADIO AND TELEVISION	60	70	10	16.7	10	9	LONG-TERM ON-THE-JOB TRAINING
257	34035	ARTISTS AND RELATED WORKERS	90	130	40	44.4	20	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
258	34038	DESIGNERS, EX INTERIOR DESIGNERS	100	120	20	20.0	10	5	BACHELOR'S DEGREE
260	34044	MERCH DISPLAYERS, WINDOW TRIMMERS	50	60	10	20.0	10	5	BACHELOR'S DEGREE
261	34047	MUSIC DIRECTORS, SINGERS, COMPOSERS	60	70	10	16.7	10	9	LONG-TERM ON-THE-JOB TRAINING
262	34051	MUSICIANS--INSTRUMENTAL	120	160	40	33.3	20	9	LONG-TERM ON-THE-JOB TRAINING
266	39000	MISC PROFS, PARAPROFS, TECHNICAL	2,370	2,840	470	19.8	390		
267	39002	AIR DISPATCHERS, AIR TRAFFIC CONTR	50	60	10	20.0	10	9	LONG-TERM ON-THE-JOB TRAINING
272	39999	OTHER PROF, PARAPROF, TECHNICAL	2,320	2,780	460	19.8	380	5	BACHELOR'S DEGREE
273	40000	SALES AND RELATED OCCUPATIONS	18,480	23,450	4,970	26.9	4,710		
274	41000	FIRST-LINE SUP/MGR--SALES	2,150	2,760	610	28.4	210	8	WORK EXPERIENCE

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			1997 (2)	2004					
275	43000	SALES AGENTS--SERVICE	900	1,180	280	31.1	160		
276	43002	SALES AGENTS, PLACERS--INSURANCE	260	340	80	30.8	50	9	LONG-TERM ON-THE-JOB TRAINING
280	43014	SALES AGENTS--FINANCIAL SERVICES	160	200	40	25.0	10	9	LONG-TERM ON-THE-JOB TRAINING
281	43017	SALES AGENTS--SEL BUS SERVICES	170	250	80	47.1	30	10	MODERATE-TERM ON-THE-JOB TRAINING
282	43021	TRAVEL AGENTS	110	120	10	9.1	20	7	POST-SECONDARY VOCATIONAL EDUCATION
283	43023	SALES AGENTS--ADVERTISING	120	170	50	41.7	30	10	MODERATE-TERM ON-THE-JOB TRAINING
284	43099	SALES REPS, SERVICE--NEC	80	100	20	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
285	49000	MERCH, PRODUCTS AND OTHER SALES	15,430	19,510	4,080	26.4	4,340		
287	49005	SALES REPS, SCIENTIFIC--EX RETAIL	290	330	40	13.8	50	10	MODERATE-TERM ON-THE-JOB TRAINING
288	49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	1,180	1,350	170	14.4	210	10	MODERATE-TERM ON-THE-JOB TRAINING
289	49011	SALESPERSONS, RETAIL	5,440	6,740	1,300	23.9	1,520	11	SHORT-TERM ON-THE-JOB TRAINING
290	49014	SALESPERSONS--PARTS	440	480	40	9.1	90	10	MODERATE-TERM ON-THE-JOB TRAINING
291	49017	COUNTER AND RENTAL CLERKS	680	980	300	44.1	260	11	SHORT-TERM ON-THE-JOB TRAINING
292	49021	STOCK CLERKS--SALES FLOOR	1,830	2,270	440	24.0	210	11	SHORT-TERM ON-THE-JOB TRAINING
293	49023	CASHIERS	4,150	5,510	1,360	32.8	1,660	11	SHORT-TERM ON-THE-JOB TRAINING
294	49026	TELEMARKETERS, SOLICITORS & RELATED	130	190	60	46.2	30	11	SHORT-TERM ON-THE-JOB TRAINING
295	49034	DEMONSTRATORS AND PROMOTERS	550	650	100	18.2	120	10	MODERATE-TERM ON-THE-JOB TRAINING
297	49999	SALES AND RELATED WORKERS, NEC	740	1,010	270	36.5	190	10	MODERATE-TERM ON-THE-JOB TRAINING
298	50000	CLERICAL, ADMINISTRATIVE SUPPORT	28,340	33,680	5,340	18.8	4,490		
299	51000	FIRST-LINE SUP/MGR, CLERL, ADM SUP	2,300	2,810	510	22.2	390	8	WORK EXPERIENCE
300	53000	INDUSTRY SPECIFIC CLERICAL, ADMIN	4,280	5,330	1,050	24.5	770		
301	53100	BANKING, SECURITY, FINANCE, CREDIT	1,880	2,270	390	20.7	420		
302	53102	TELLERS	930	1,020	90	9.7	310	11	SHORT-TERM ON-THE-JOB TRAINING

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			1997 (2)	2004					
303	53105	NEW ACCOUNTS CLERKS	220	280	60	27.3	60	8	WORK EXPERIENCE
308	53121	LOAN AND CREDIT CLERKS	190	220	30	15.8	20	11	SHORT-TERM ON-THE-JOB TRAINING
309	53123	ADJUSTMENT CLERKS	540	750	210	38.9	30	11	SHORT-TERM ON-THE-JOB TRAINING
312	53300	INSURANCE WORKERS	600	770	170	28.3	80		
313	53302	INS ADJUST, EXAMIN, INVESTIGATORS	360	480	120	33.3	50	9	LONG-TERM ON-THE-JOB TRAINING
316	53311	INSURANCE CLAIMS CLERKS	150	180	30	20.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
317	53314	INSURANCE POLICY PROCESSING CLERKS	90	110	20	22.2	10	10	MODERATE-TERM ON-THE-JOB TRAINING
318	53500	INVESTIGATIVE, RELATED, EX INSUR	430	500	70	16.3	70		
319	53502	WELFARE ELIG WORKERS, INTERVIEWERS	240	240	0	0.0	30	10	MODERATE-TERM ON-THE-JOB TRAINING
321	53508	BILL AND ACCOUNT COLLECTORS	190	260	70	36.8	40	11	SHORT-TERM ON-THE-JOB TRAINING
326	53800	LODGING AND TRAVEL WORKERS	100	130	30	30.0	30		
329	53808	HOTEL DESK CLERKS	100	130	30	30.0	30	11	SHORT-TERM ON-THE-JOB TRAINING
330	53900	MISC INDUSTRY SPECIFIC CLERICAL	1,270	1,660	390	30.7	170		
331	53902	LIBRARY ASSTS & BOOKMOBILE DRIVERS	170	210	40	23.5	70	11	SHORT-TERM ON-THE-JOB TRAINING
332	53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	1,100	1,450	350	31.8	100	11	SHORT-TERM ON-THE-JOB TRAINING
336	55000	SECRETARIAL, GENERAL OFFICE OCCS	13,810	16,240	2,430	17.6	2,300		
337	55100	SECRETARIES	2,810	3,150	340	12.1	330		
338	55102	SECRETARIES, LEGAL	220	250	30	13.6	30	7	POST-SECONDARY VOCATIONAL EDUCATION
339	55105	SECRETARIES, MEDICAL	180	200	20	11.1	20	7	POST-SECONDARY VOCATIONAL EDUCATION
340	55108	SECRETARIES, GENERAL	2,410	2,700	290	12.0	280	7	POST-SECONDARY VOCATIONAL EDUCATION
341	55300	MISC SECRETARIAL, GENL OFF OCCS	11,000	13,090	2,090	19.0	1,970		
342	55302	STENOGRAPHERS AND/OR COURT REPORTERS	50	60	10	20.0	10	7	POST-SECONDARY VOCATIONAL EDUCATION
343	55305	RECEPTIONISTS, INFORMATION CLERKS	1,920	2,450	530	27.6	300	11	SHORT-TERM ON-THE-JOB TRAINING
344	55307	TYPISTS, INCLUDING WORD PROCESSING	660	600	-60	-9.1	90	10	MODERATE-TERM ON-THE-JOB TRAINING
345	55314	PERS CLERKS--EX PAYROLL	150	160	10	6.7	20	11	SHORT-TERM ON-THE-JOB TRAINING
347	55321	FILE CLERKS	360	450	90	25.0	100	11	SHORT-TERM ON-THE-JOB TRAINING



**Table 6**  
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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
348	55323	ORDER CLERKS--MATERIALS, SERVICE	400	470	70	17.5	70	11	SHORT-TERM ON-THE-JOB TRAINING
351	55332	INTERVIEW CLERKS--EX PERS, WELFARE	160	190	30	18.8	40	11	SHORT-TERM ON-THE-JOB TRAINING
352	55335	CUSTOMER SERVICE REPS--UTILITIES	480	620	140	29.2	90	11	SHORT-TERM ON-THE-JOB TRAINING
353	55338	BOOKKEEPING, ACCOUNTING CLERKS	2,520	2,770	250	9.9	340	10	MODERATE-TERM ON-THE-JOB TRAINING
354	55341	PAYROLL AND TIMEKEEPING CLERKS	240	250	10	4.2	30	11	SHORT-TERM ON-THE-JOB TRAINING
355	55344	BILLING, COST, AND RATE CLERKS	390	470	80	20.5	60	11	SHORT-TERM ON-THE-JOB TRAINING
356	55347	GENERAL OFFICE CLERKS	3,670	4,600	930	25.3	820	11	SHORT-TERM ON-THE-JOB TRAINING
357	56000	EDP AND OFFICE MACHINE OCCUPATIONS	1,000	1,160	160	16.0	100		
358	56002	BILLING, POSTING, CALC MACHINE OPS	340	360	20	5.9	50	11	SHORT-TERM ON-THE-JOB TRAINING
361	56011	COMPUTER OPS--EX PERIPHERAL EQUIP	190	190	0	0.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
363	56017	DATA ENTRY KEYERS--EX COMPOSING	410	560	150	36.6	20	7	POST-SECONDARY VOCATIONAL EDUCATION
365	56099	OFFICE MACHINE OPERATORS, NEC	60	50	-10	-16.7	10	11	SHORT-TERM ON-THE-JOB TRAINING
366	57000	COMMUNICATIONS, MAIL DISTRIBUTION	1,380	1,510	130	9.4	240		
367	57100	COMMUNICATION EQUIPMENT OPERATORS	510	530	20	3.9	80		
368	57102	SWITCHBOARD OPERATORS	190	210	20	10.5	30	11	SHORT-TERM ON-THE-JOB TRAINING
370	57108	CENTRAL OFFICE OPERATORS	320	320	0	0.0	50	10	MODERATE-TERM ON-THE-JOB TRAINING
373	57300	MAIL, MESSAGE DISTRIBUTION WORKERS	870	980	110	12.6	160		
374	57302	MAIL CLKS-EX MAIL MACH OPS, POSTAL	100	120	20	20.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
375	57305	POSTAL MAIL CARRIERS	560	620	60	10.7	110	11	SHORT-TERM ON-THE-JOB TRAINING
376	57308	POSTAL SERVICE CLERKS	140	160	20	14.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
377	57311	MESSENGERS	70	80	10	14.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
378	58000	MATERIAL RECORDING, DISPATCHING	4,360	5,170	810	18.6	540		
379	58002	DISPATCH--POLICE, FIRE, AMBULANCE	120	140	20	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
380	58005	DISPATCH--EX POLICE, FIRE, AMBULANCE	320	380	60	18.8	40	10	MODERATE-TERM ON-THE-JOB TRAINING
381	58008	PROD, PLANNING, EXPEDITING CLERKS	280	300	20	7.1	20	11	SHORT-TERM ON-THE-JOB TRAINING
383	58014	METER READERS--UTILITIES	80	90	10	12.5	20	11	SHORT-TERM ON-THE-JOB TRAINING

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			1997 (2)	2004					
384	58017	WEIGHERS, MEASURERS--RECORDKEEPING	70	70	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
386	58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	1,700	2,210	510	30.0	200	11	SHORT-TERM ON-THE-JOB TRAINING
387	58026	ORDER FILLERS--WHLE & RET SALES	270	320	50	18.5	50	11	SHORT-TERM ON-THE-JOB TRAINING
388	58028	TRAFFIC, SHIPPING, RECEIVING CLERKS	1,340	1,460	120	9.0	160	11	SHORT-TERM ON-THE-JOB TRAINING
389	58099	MATERIAL RECORDING, RELATED, NEC	180	200	20	11.1	30	11	SHORT-TERM ON-THE-JOB TRAINING
390	59000	CLERICAL, ADMIN SUPPORT, NEC	1,210	1,460	250	20.7	150	11	SHORT-TERM ON-THE-JOB TRAINING
392	60000	SERVICE OCCUPATIONS	26,710	32,970	6,260	23.4	7,090		
393	61000	FIRST-LINE SUP/MGR--SERVICE	1,590	1,920	330	20.8	310		
394	61002	FIRE FIGHTING & PREVENTION SUPS	200	230	30	15.0	50	8	WORK EXPERIENCE
395	61005	POLICE AND DETECTIVE SUPERVISORS	250	280	30	12.0	50	8	WORK EXPERIENCE
396	61008	HOUSEKEEPING SUPERVISORS	100	110	10	10.0	20	8	WORK EXPERIENCE
397	61099	FIRST-LINE SUP/MGR SERV WKRS, NEC	1,040	1,300	260	25.0	190	8	WORK EXPERIENCE
398	63000	PROTECTIVE SERVICE OCCUPATIONS	3,890	4,980	1,090	28.0	920		
401	63008	FIRE FIGHTERS	630	700	70	11.1	110	9	LONG-TERM ON-THE-JOB TRAINING
402	63011	POLICE DETECTIVES	80	100	20	25.0	20	8	WORK EXPERIENCE
403	63014	POLICE PATROL OFFICERS	690	900	210	30.4	140	9	LONG-TERM ON-THE-JOB TRAINING
404	63017	CORRECTION OFFICERS, JAILERS	920	1,180	260	28.3	200	9	LONG-TERM ON-THE-JOB TRAINING
413	63044	CROSSING GUARDS	50	60	10	20.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
414	63047	GUARDS AND WATCH GUARDS	1,260	1,720	460	36.5	270	11	SHORT-TERM ON-THE-JOB TRAINING
415	63099	PROTECTIVE SERVICE WORKERS, NEC	260	320	60	23.1	170	11	SHORT-TERM ON-THE-JOB TRAINING
416	65000	FOOD, BEV PREP AND SERVICE OCCS	11,260	13,600	2,340	20.8	4,350		
417	65002	HOSTS, HOSTESSES--RESTAURANTS	290	370	80	27.6	70	11	SHORT-TERM ON-THE-JOB TRAINING
418	65005	BARTENDERS	340	380	40	11.8	110	11	SHORT-TERM ON-THE-JOB TRAINING
419	65008	WAITERS AND WAITRESSES	2,400	2,940	540	22.5	1,070	11	SHORT-TERM ON-THE-JOB TRAINING

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LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
420	65011	FOOD SERVERS--OUTSIDE	80	90	10	12.5	60	11	SHORT-TERM ON-THE-JOB TRAINING
421	65014	DINING RM ATTENDANTS, BAR HELPERS	650	710	60	9.2	170	11	SHORT-TERM ON-THE-JOB TRAINING
422	65017	COUNTER ATTENDANTS--FOOD	560	690	130	23.2	470	11	SHORT-TERM ON-THE-JOB TRAINING
423	65021	BAKERS--BREAD AND PASTRY	120	190	70	58.3	30	10	MODERATE-TERM ON-THE-JOB TRAINING
424	65023	BUTCHERS AND MEAT CUTTERS	220	290	70	31.8	40	9	LONG-TERM ON-THE-JOB TRAINING
425	65026	COOKS--RESTAURANT	1,350	1,680	330	24.4	300	9	LONG-TERM ON-THE-JOB TRAINING
426	65028	COOKS--INSTITUTION OR CAFETERIA	410	450	40	9.8	90	9	LONG-TERM ON-THE-JOB TRAINING
427	65032	COOKS--SPECIALTY FAST FOOD	580	710	130	22.4	130	11	SHORT-TERM ON-THE-JOB TRAINING
428	65035	COOKS--SHORT ORDER	90	120	30	33.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
429	65038	FOOD PREPARATION WORKERS	1,460	1,710	250	17.1	630	11	SHORT-TERM ON-THE-JOB TRAINING
430	65041	COMBINED FOOD PREP AND SERVICE	2,280	2,780	500	21.9	1,010	11	SHORT-TERM ON-THE-JOB TRAINING
431	65099	FOOD SERVICE WORKERS, NEC	430	490	60	14.0	150	11	SHORT-TERM ON-THE-JOB TRAINING
432	66000	HEALTH SERVICE, RELATED OCCS	3,820	4,870	1,050	27.5	490		
433	66002	DENTAL ASSISTANTS	670	830	160	23.9	80	10	MODERATE-TERM ON-THE-JOB TRAINING
434	66005	MEDICAL ASSISTANTS	410	550	140	34.1	80	10	MODERATE-TERM ON-THE-JOB TRAINING
435	66008	NURSE AIDES, ORDERLIES, ATTENDANTS	1,790	2,210	420	23.5	190	11	SHORT-TERM ON-THE-JOB TRAINING
436	66011	HOME HEALTH CARE WORKERS	530	760	230	43.4	60	11	SHORT-TERM ON-THE-JOB TRAINING
438	66017	PHYSICAL THERAPY ASSISTANTS & AIDES	140	190	50	35.7	30	10	MODERATE-TERM ON-THE-JOB TRAINING
441	66026	PHARMACY AIDES	100	130	30	30.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
442	66099	HEALTH SERVICE WORKERS, NEC	180	200	20	11.1	30	11	SHORT-TERM ON-THE-JOB TRAINING
443	67000	CLEANING, BLDING SERV EX PRIV HOUSE	3,820	4,580	760	19.9	630		
444	67002	MAIDS AND HOUSEKEEPING CLEANERS	840	1,020	180	21.4	120	11	SHORT-TERM ON-THE-JOB TRAINING
445	67005	JANITORS, CLEANERS--EXCEPT MAIDS	2,600	3,100	500	19.2	440	11	SHORT-TERM ON-THE-JOB TRAINING
446	67008	PEST CONTROLLERS AND ASSISTANTS	150	200	50	33.3	30	10	MODERATE-TERM ON-THE-JOB TRAINING
448	67099	CLEANING, BLDING SERV--EX PH, NEC	230	260	30	13.0	40	11	SHORT-TERM ON-THE-JOB TRAINING
449	68000	MISC PERSONAL SERVICE OCCUPATIONS	1,570	2,040	470	29.9	230		
451	68005	HAIRDRESSERS, HAIRSTYLISTS	390	480	90	23.1	80	7	POST-SECONDARY VOCATIONAL EDUCATION
452	68008	MANICURISTS	50	70	20	40.0	10	7	POST-SECONDARY VOCATIONAL EDUCATION



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			1997 (2)	2004					
454	68014	AMUSEMENT, RECREATION ATTENDANTS	400	530	130	32.5	70	11	SHORT-TERM ON-THE-JOB TRAINING
456	68021	USHERS, LOBBY ATTENDANTS	70	110	40	57.1	10	11	SHORT-TERM ON-THE-JOB TRAINING
461	68035	PERSONAL AND HOME CARE AIDES	100	130	30	30.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
462	68038	CHILD CARE WORKERS	560	720	160	28.6	40	11	SHORT-TERM ON-THE-JOB TRAINING
464	69000	MISC SERVICE WORKERS	760	980	220	28.9	160	8	WORK EXPERIENCE
466	70000	AGRICULTURAL, FORESTRY, FISHING	3,240	3,930	690	21.3	720		
475	79000	MISC AG, FORESTRY, FISHING	3,240	3,930	690	21.3	720		
476	79002	FOREST, CONSERVATION WORKERS	150	170	20	13.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
478	79011	GRADERS, SORTERS--AG PRODUCTS	860	970	110	12.8	170	11	SHORT-TERM ON-THE-JOB TRAINING
485	79041	LABORERS, LANDSCAPING/GROUNDSKEEPING	1,770	2,250	480	27.1	440	11	SHORT-TERM ON-THE-JOB TRAINING
486	79806	VETERINARY ASSISTANTS	90	110	20	22.2	10	11	SHORT-TERM ON-THE-JOB TRAINING
489	79999	AG, FORESTRY, FISHING--NEC	370	430	60	16.2	80	11	SHORT-TERM ON-THE-JOB TRAINING
490	80000	PROD, CONST, OPER, MAT HANDLING	49,660	60,170	10,510	21.2	9,010		
491	81000	FIRST-LINE SUP/MGR-BLUE COLLAR	3,140	3,720	580	18.5	660		
492	81002	FIRST-LINE SUP/MGR-MECH, REPAIRERS	780	910	130	16.7	170	8	WORK EXPERIENCE
493	81005	FIRST-LINE SUP/MGR-CONSTRUCTION	390	570	180	46.2	90	8	WORK EXPERIENCE
494	81008	FIRST-LINE SUP/MGR-PRODUCTION	820	900	80	9.8	170	8	WORK EXPERIENCE
495	81011	FIRST-LINE SUP/MGR-TRANSPORTATION	310	360	50	16.1	60	8	WORK EXPERIENCE
496	81017	FIRST-LINE SUP/MGR-HELP, LABORERS	390	460	70	17.9	80	8	WORK EXPERIENCE
497	81099	FIRST-LINE SUP/MGR-BLUE COLLAR NEC	450	520	70	15.6	90	8	WORK EXPERIENCE
498	83000	INSPECTORS, RELATED OCCUPATIONS	1,600	1,450	-150	-9.4	240		
499	83002	INSPECTORS, TESTERS, & GRADERS, PRECI	70	70	0	0.0	10	8	WORK EXPERIENCE

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			1997 (2)	2004					
500	83005	PROD INSPECTORS, TESTERS, & GRADER	1,530	1,380	-150	-9.8	230	8	WORK EXPERIENCE
503	85000	MECHANICS, INSTALLERS, REPAIRERS	6,690	7,850	1,160	17.3	1,180		
504	85100	MACHINERY AND RELATED MECHANICS	3,160	3,610	450	14.2	520		
505	85110	MACHINERY MAINTENANCE MECHANICS	840	910	70	8.3	130	9	LONG-TERM ON-THE-JOB TRAINING
510	85118	MAINT MECHANICS--WATER, POWER	140	160	20	14.3	20	9	LONG-TERM ON-THE-JOB TRAINING
511	85119	MACHINERY MAINT MECHANICS, NEC	70	80	10	14.3	10	9	LONG-TERM ON-THE-JOB TRAINING
512	85123	MILLWRIGHTS	50	60	10	20.0	10	9	LONG-TERM ON-THE-JOB TRAINING
514	85128	MACHINERY MAINTENANCE WORKERS	160	180	20	12.5	30	9	LONG-TERM ON-THE-JOB TRAINING
515	85132	MAINT REPAIRERS, GENL UTILITY	1,900	2,220	320	16.8	320	9	LONG-TERM ON-THE-JOB TRAINING
516	85300	MOBILE EQUIP MECHANICS, REPAIRERS	2,110	2,520	410	19.4	390		
517	85302	AUTOMOTIVE MECHANICS	1,060	1,270	210	19.8	200	9	LONG-TERM ON-THE-JOB TRAINING
518	85305	AUTOMOTIVE BODY, RELATED REPAIRERS	240	290	50	20.8	50	9	LONG-TERM ON-THE-JOB TRAINING
520	85311	BUS AND TRUCK MECHANICS	490	580	90	18.4	80	9	LONG-TERM ON-THE-JOB TRAINING
521	85314	MOBILE HEAVY EQUIP MECH--EX ENGINE	190	240	50	26.3	40	9	LONG-TERM ON-THE-JOB TRAINING
523	85321	FARM EQUIPMENT MECHANICS	130	140	10	7.7	20	9	LONG-TERM ON-THE-JOB TRAINING
535	85700	OTHER ELECTRICAL EQUIP MECHANICS	330	400	70	21.2	80		
536	85702	TELEPHONE, CABLE TV INSTALLERS	200	240	40	20.0	50	9	LONG-TERM ON-THE-JOB TRAINING
541	85717	ELECT REPAIRERS--COMMERCIAL	130	160	30	23.1	30	7	POST-SECONDARY VOCATIONAL EDUCATION
547	85900	MISC MECH, INSTALLERS, REPAIRERS	1,090	1,320	230	21.1	190		
548	85902	HEATING, AC, REFRIG MECHANICS	350	490	140	40.0	50	9	LONG-TERM ON-THE-JOB TRAINING
560	85938	INSTALLER & REPAIRER, MOBILE HOME	60	70	10	16.7	10	9	LONG-TERM ON-THE-JOB TRAINING
561	85944	GAS APPLIANCE REPAIRERS	50	60	10	20.0	10	9	LONG-TERM ON-THE-JOB TRAINING
564	85953	TIRE REPAIRERS AND CHANGERS	200	220	20	10.0	70	11	SHORT-TERM ON-THE-JOB TRAINING
566	85999	MECHS, INSTALLERS, REPAIRERS, NEC	430	480	50	11.6	50	9	LONG-TERM ON-THE-JOB TRAINING
567	87000	CONSTRUCTION TRADES	4,160	5,780	1,620	38.9	790		

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			1997 (2)	2004					
568	87100	CARPENTERS AND RELATED WORKERS	1,230	1,780	550	44.7	260		
569	87102	CARPENTERS	1,000	1,460	460	46.0	230	9	LONG-TERM ON-THE-JOB TRAINING
571	87108	DRYWALL INSTALLERS	150	210	60	40.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
572	87111	TAPERS	80	110	30	37.5	10	10	MODERATE-TERM ON-THE-JOB TRAINING
575	87200	ELECTRICIANS AND RELATED WORKERS	740	1,020	280	37.8	120		
576	87202	ELECTRICIANS	740	1,020	280	37.8	120	9	LONG-TERM ON-THE-JOB TRAINING
577	87300	MASONS AND RELATED WORKERS	360	500	140	38.9	50		
580	87308	HARD TILE SETTERS	100	130	30	30.0	20	9	LONG-TERM ON-THE-JOB TRAINING
581	87311	CONCRETE AND TERRAZZO FINISHERS	260	370	110	42.3	30	9	LONG-TERM ON-THE-JOB TRAINING
584	87400	PAINTERS AND RELATED WORKERS	420	600	180	42.9	90		
585	87402	PAINTERS, PAPERHANGERS--CONST	420	600	180	42.9	90	10	MODERATE-TERM ON-THE-JOB TRAINING
586	87500	PLUMBERS AND RELATED WORKERS	290	380	90	31.0	30		
587	87502	PLUMBERS, PIPEFITTERS, STEAMFITTER	290	380	90	31.0	30	9	LONG-TERM ON-THE-JOB TRAINING
591	87600	CARPET, FLOOR INSTALLERS	80	100	20	25.0	10		
592	87602	CARPET INSTALLERS	80	100	20	25.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
595	87700	SELECTED ROAD, RAIL AND RELATED	250	290	40	16.0	40		
598	87708	PAVING, TAMPING-EQUIP OPERATORS	120	150	30	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
599	87711	HIGHWAY MAINTENANCE WORKERS	130	140	10	7.7	20	11	SHORT-TERM ON-THE-JOB TRAINING
601	87800	CONSTRUCTION TRADES, NEC	720	1,010	290	40.3	170		
605	87808	ROOFERS	250	350	100	40.0	70	10	MODERATE-TERM ON-THE-JOB TRAINING
607	87814	STRUCTURAL METAL WORKERS	160	230	70	43.8	40	9	LONG-TERM ON-THE-JOB TRAINING
608	87817	FENCE ERECTORS	120	180	60	50.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
609	87899	CONSTRUCTION TRADES WORKERS, NEC	190	250	60	31.6	40	10	MODERATE-TERM ON-THE-JOB TRAINING
610	87900	EXTRACTIVE AND RELATED WORKERS	70	100	30	42.9	20		
624	87999	CONST, EXTRACTIVE--EX HELPERS, NEC	70	100	30	42.9	20	10	MODERATE-TERM ON-THE-JOB TRAINING



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			1997 (2)	2004					
625	89000	PRODUCTION OCCUPATIONS, PRECISION	2,480	3,070	590	23.8	420		
626	89100	METAL WORKERS, PRECISION	520	650	130	25.0	90		
629	89108	MACHINISTS	290	330	40	13.8	40	9	LONG-TERM ON-THE-JOB TRAINING
637	89132	SHEET METAL WORKERS	230	320	90	39.1	50	10	MODERATE-TERM ON-THE-JOB TRAINING
640	89300	WOODWORKERS, PRECISION	330	470	140	42.4	40		
643	89308	WOOD MACHINISTS	100	150	50	50.0	10	9	LONG-TERM ON-THE-JOB TRAINING
644	89311	CABINETMAKERS AND BENCH CARPENTERS	120	160	40	33.3	10	9	LONG-TERM ON-THE-JOB TRAINING
646	89399	WOODWORKERS, NEC--PRECISION	110	160	50	45.5	20	9	LONG-TERM ON-THE-JOB TRAINING
647	89500	TEXTILE, APPAREL, FURNISHINGS,PREC	60	60	0	0.0	10		
650	89508	UPHOLSTERERS	60	60	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
675	89900	OTHER PRECISION WORKERS	1,570	1,890	320	20.4	280		
682	89921	DENTAL LAB TECHNICIANS, PRECISION	70	70	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
685	89999	WORKERS, PRECISION--NEC	1,500	1,820	320	21.3	270	9	LONG-TERM ON-THE-JOB TRAINING
686	91000	MACH SETTERS, SET-UP, OPS, TENDERS	5,280	6,150	870	16.5	930		
694	91300	MACH FORMING SETTERS--METAL, PLASTIC	550	800	250	45.5	110		
696	91305	PRESS MACH SETTERS--METAL, PLASTIC	130	150	20	15.4	20	10	MODERATE-TERM ON-THE-JOB TRAINING
701	91321	MACH FORMING OPS, TENDERS--MET, PLASTIC	420	650	230	54.8	90	10	MODERATE-TERM ON-THE-JOB TRAINING
702	91500	MACH TOOL SETTERS, OPS--METAL, PLASTIC	60	80	20	33.3	10		
703	91502	NUMERICAL MACH TOOL OPS--MET, PLASTIC	60	80	20	33.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
706	91700	METAL FABRICATING MACH SETTERS, OPS	470	670	200	42.6	90		
708	91705	WELDING MACH OPERATORS AND TENDERS	140	180	40	28.6	30	10	MODERATE-TERM ON-THE-JOB TRAINING
711	91714	METAL FABRICATOR, STRUCT MET PRODS	330	490	160	48.5	60	10	MODERATE-TERM ON-THE-JOB TRAINING

**Table 6**  
**Occupational Employment Projections (1)**  
**1997 -2004**  
**SAN JOAQUIN COUNTY**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
712	91900	METAL, PLAST PROCESS MACH SETTERS	150	180	30	20.0	30		
713	91902	PLAST MOLDING, CASTING MACH SETTER	80	100	20	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
714	91905	PLASTIC MOLDING, CASTING MACH OPS	70	80	10	14.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
727	92100	METAL, PLAST MACH SETTERS, OPS NEC	60	70	10	16.7	10		
728	92197	CUT, FORM, FAB, PROC MACH SETTER	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
730	92300	WOODWORKING MACH SETTERS, OPS	220	230	10	4.5	40		
733	92308	SAWING MACH OPS AND TENDERS	100	110	10	10.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
735	92314	WOODWORK MACH OPS,TNDRS--EX SAWING	120	120	0	0.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
736	92500	PRINTING, BINDING, RELATED WORKERS	210	230	20	9.5	40		
738	92512	OFFSET LITHOGRAPHIC PRESS SETTERS	50	50	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
746	92543	PRINTING PRESS MACHINE OPS, TENDER	160	180	20	12.5	30	10	MODERATE-TERM ON-THE-JOB TRAINING
750	92700	TEXTILE, RELATED SETTERS, OPS	290	380	90	31.0	50		
757	92721	SEWING MACHINE OPS--NON-GARMENT	100	120	20	20.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
759	92726	LNDRY, DRYCLEAN MACH OPS--EX PRESS	120	160	40	33.3	30	10	MODERATE-TERM ON-THE-JOB TRAINING
760	92728	PRESSING MACH OPS--TEXTILE, GARMENT	70	100	30	42.9	10	10	MODERATE-TERM ON-THE-JOB TRAINING
761	92900	MACH SETTER,SET-UP,OP--EX MET,PLASTIC	3,270	3,510	240	7.3	550		
764	92908	PHOTOGRAPHIC PROC MACH OPS,TNDRS	340	360	20	5.9	100	11	SHORT-TERM ON-THE-JOB TRAINING
767	92917	COOKING MACH OPS,TNDRS-FOOD,TOBACCO	80	60	-20	-25.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
769	92923	FURNACE, KILN, KETTLE OPS, TENDERS	100	100	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
775	92941	CUT, SLICING MACH SETTERS, SET-UP	60	60	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
776	92944	CUTTING, SLICING MACH OPS, TNDRS	100	120	20	20.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
777	92947	PAINTERS, TRANSPORTATION EQUIP	110	120	10	9.1	20	10	MODERATE-TERM ON-THE-JOB TRAINING
779	92953	PAINTING, REL MACH OPS, TENDERS	120	150	30	25.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
781	92958	CLEANING, PICKLING EQUIP OPS,TNDRS	60	60	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
782	92962	SEPARATING, STILL MACH OPS, TNDRS	120	110	-10	-8.3	20	10	MODERATE-TERM ON-THE-JOB TRAINING
783	92965	CRUSHING, MIXING MACH OPS, TNDRS	380	390	10	2.6	60	10	MODERATE-TERM ON-THE-JOB TRAINING
784	92968	EXTRUDING, FORMING, SETTERS, SET-UP	70	80	10	14.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
785	92971	EXTRUDING, FORMING MACH OPS, TNDRS	130	140	10	7.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING

**Table 6**  
**Occupational Employment Projections (1)**  
**1997 -2004**  
**SAN JOAQUIN COUNTY**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
786	92974	PACKAGING, FILLING MACH OPS, TNDRS	970	1,010	40	4.1	180	10	MODERATE-TERM ON-THE-JOB TRAINING
787	92997	MACHINE SETTERS & SET-UP OPS, NEC	230	280	50	21.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING
788	92998	MACHINE OPERATORS AND TENDERS, NEC	400	470	70	17.5	40	10	MODERATE-TERM ON-THE-JOB TRAINING
789	93000	ASSEMBLERS AND FABRICATORS--HAND	4,410	4,940	530	12.0	740		
790	93100	ASSEMBLERS, PRECISION	220	280	60	27.3	40		
793	93108	FITTERS, STRUCTURAL METAL--PREC	140	180	40	28.6	30	8	WORK EXPERIENCE
795	93114	ELECTRICAL EQUIP ASSEMBLERS--PREC	80	100	20	25.0	10	8	WORK EXPERIENCE
798	93900	OTHER HAND WORKERS	4,190	4,660	470	11.2	700		
800	93905	ELECTRICAL, ELECTRONIC ASSEMBLERS	90	100	10	11.1	10	11	SHORT-TERM ON-THE-JOB TRAINING
803	93914	WELDERS AND CUTTERS	830	1,010	180	21.7	160	7	POST-SECONDARY VOCATIONAL EDUCATION
804	93917	SOLDERERS AND BRAZERS	60	110	50	83.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
806	93923	SEWERS--HAND	180	230	50	27.8	30	11	SHORT-TERM ON-THE-JOB TRAINING
810	93935	CANNERY WORKERS	1,150	780	-370	-32.2	180	11	SHORT-TERM ON-THE-JOB TRAINING
811	93938	MEAT, POULTRY, FISH CUTTERS--HAND	100	110	10	10.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
816	93953	GRINDING, POLISHING WORKERS--HAND	80	110	30	37.5	20	11	SHORT-TERM ON-THE-JOB TRAINING
817	93956	ASSEMB, FABRICATORS--EX MACH,ELECTRIC	1,280	1,690	410	32.0	180	11	SHORT-TERM ON-THE-JOB TRAINING
818	93999	HAND WORKERS, NEC	420	520	100	23.8	90	11	SHORT-TERM ON-THE-JOB TRAINING
819	95000	PLANT AND SYSTEM OCCUPATIONS	780	860	80	10.3	150		
820	95002	WATER TREATMENT PLANT OPERATORS	260	300	40	15.4	40	9	LONG-TERM ON-THE-JOB TRAINING
826	95021	POWER PLANT OPS--EX AUXILIARY EQUIP	60	70	10	16.7	10	9	LONG-TERM ON-THE-JOB TRAINING
830	95032	STATIONARY ENGINEERS	70	70	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
831	95099	PLANT AND SYSTEM OPERATORS, NEC	390	420	30	7.7	90	9	LONG-TERM ON-THE-JOB TRAINING
832	97000	TRANS, MATERIAL MOVING MACHINE OPS	11,200	13,930	2,730	24.4	1,320		
833	97100	MOTOR VEHICLE OPERATORS	7,760	9,860	2,100	27.1	890		
834	97102	TRUCK DRIVERS, HEAVY	4,590	5,880	1,290	28.1	510	11	SHORT-TERM ON-THE-JOB TRAINING



**Table 6**  
**Occupational Employment Projections (1)**  
**1997 -2004**  
**SAN JOAQUIN COUNTY**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
835	97105	TRUCK DRIVERS, LIGHT	1,920	2,570	650	33.9	220	11	SHORT-TERM ON-THE-JOB TRAINING
836	97108	BUS DRIVERS	80	90	10	12.5	10	10	MODERATE-TERM ON-THE-JOB TRAINING
837	97111	BUS DRIVERS--SCHOOL	670	800	130	19.4	90	11	SHORT-TERM ON-THE-JOB TRAINING
839	97117	DRIVER/SALES WORKERS	380	400	20	5.3	50	11	SHORT-TERM ON-THE-JOB TRAINING
840	97199	MOTOR VEHICLE OPERATORS, NEC	120	120	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
859	97800	MISC TRANSPORTATION WORKERS	460	480	20	4.3	90		
861	97805	SERVICE STATION ATTENDANTS	170	160	-10	-5.9	50	11	SHORT-TERM ON-THE-JOB TRAINING
863	97899	TRANS AND RELATED WORKERS, NEC	290	320	30	10.3	40	10	MODERATE-TERM ON-THE-JOB TRAINING
864	97900	MATERIAL MOVEMENT EQUIP OPERATORS	2,980	3,590	610	20.5	340		
872	97923	EXCAVATING, LOADING MACHINE OPS	120	180	60	50.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
877	97938	GRADER, DOZER, SCRAPER OPERATORS	160	230	70	43.8	10	10	MODERATE-TERM ON-THE-JOB TRAINING
879	97944	CRANE AND TOWER OPERATORS	60	80	20	33.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
880	97947	INDUSTRIAL TRUCK,TRACTOR OPERATORS	1,830	2,160	330	18.0	160	11	SHORT-TERM ON-THE-JOB TRAINING
881	97951	CONVEYOR OPERATORS AND TENDERS	130	130	0	0.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
883	97956	OPERATING ENGINEERS	120	160	40	33.3	20	10	MODERATE-TERM ON-THE-JOB TRAINING
884	97989	MATERIAL MOVING EQUIP OPS, NEC	510	580	70	13.7	90	10	MODERATE-TERM ON-THE-JOB TRAINING
885	97999	TRANS, MAT MOVING EQUIP OPS, NEC	50	70	20	40.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
886	98000	HELPERS, LABORERS, HAND--EX AG	9,920	12,420	2,500	25.2	2,580		
887	98100	MECHANIC AND REPAIRER HELPERS	520	680	160	30.8	200		
888	98102	MECHANIC AND REPAIRER HELPERS, NEC	520	680	160	30.8	200	11	SHORT-TERM ON-THE-JOB TRAINING
889	98300	CONST TRADES, EXTRACTIVE--HELPERS	790	1,240	450	57.0	280		
890	98311	HELPERS--BRICK,STONE MASONS	60	80	20	33.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
891	98312	HELPERS--CARPENTERS AND RELATED	320	550	230	71.9	150	11	SHORT-TERM ON-THE-JOB TRAINING
894	98315	HELPERS--PLUMBERS AND RELATED	120	170	50	41.7	50	11	SHORT-TERM ON-THE-JOB TRAINING
895	98316	HELPERS--ROOFERS	50	80	30	60.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
896	98319	HELPERS--CONSTRUCTION TRADES, NEC	240	360	120	50.0	40	11	SHORT-TERM ON-THE-JOB TRAINING
898	98500	MACHINE FEEDERS AND OFFBEARERS	430	490	60	14.0	100		

**Table 6**  
**Occupational Employment Projections (1)**  
**1997 -2004**  
**SAN JOAQUIN COUNTY**

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	TRAINING LEVEL	EDUCATION/EXPERIENCE
			1997 (2)	2004					
899	98502	MACHINE FEEDERS AND OFFBEARERS, NEC	430	490	60	14.0	100	11	SHORT-TERM ON-THE-JOB TRAINING
900	98700	FREIGHT, STOCK, MAT MOVERS, HAND	1,520	1,800	280	18.4	500		
901	98702	STEVEDORES--EX EQUIPMENT OPERATORS	70	70	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
902	98705	REFUSE COLLECTORS	50	50	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
903	98799	FREIGHT, MATERIAL MOVERS-HAND, NEC	1,400	1,680	280	20.0	460	11	SHORT-TERM ON-THE-JOB TRAINING
904	98900	MISC HELPERS, LABORERS--HAND	6,660	8,210	1,550	23.3	1,500		
905	98902	HAND PACKERS AND PACKAGERS	1,670	2,330	660	39.5	350	11	SHORT-TERM ON-THE-JOB TRAINING
906	98905	VEHICLE WASHERS, EQUIP CLEANERS	400	460	60	15.0	90	11	SHORT-TERM ON-THE-JOB TRAINING
907	98999	MISC HELPERS, LABORERS--HAND, NEC	4,590	5,420	830	18.1	1,060	11	SHORT-TERM ON-THE-JOB TRAINING
908		OCCUPATIONS NOT CLASSIFIED	30	30	0	0.0	0	12	NOT CLASSIFIED

(1) Employment and projections contained in these tables are considered estimates. See introduction for an explanation of data limitations.

(2) March 1998 Benchmark

**Table 7**  
**Occupations With The Most Openings (1)**  
**(Growth plus Separations)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
49023	CASHIERS	3,020	11	SHORT-TERM ON-THE-JOB TRAINING
49011	SALESPERSONS, RETAIL	2,820	11	SHORT-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	1,800	11	SHORT-TERM ON-THE-JOB TRAINING
55347	GENERAL OFFICE CLERKS	1,750	11	SHORT-TERM ON-THE-JOB TRAINING
65008	WAITERS AND WAITRESSES	1,610	11	SHORT-TERM ON-THE-JOB TRAINING
65041	COMBINED FOOD PREP AND SERVICE	1,510	11	SHORT-TERM ON-THE-JOB TRAINING
31308	TEACHERS--SECONDARY SCHOOL	1,380	5	BACHELOR'S DEGREE
19005	GENERAL MANAGERS, TOP EXECUTIVE	1,350	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
31305	TEACHERS--ELEMENTARY SCHOOL	1,190	5	BACHELOR'S DEGREE
98902	HAND PACKERS AND PACKAGERS	1,010	11	SHORT-TERM ON-THE-JOB TRAINING
67005	JANITORS, CLEANERS--EXCEPT MAIDS	940	11	SHORT-TERM ON-THE-JOB TRAINING
79041	LABORERS, LANDSCAPING/GRNDSKEEPING	920	11	SHORT-TERM ON-THE-JOB TRAINING
65038	FOOD PREPARATION WORKERS	880	11	SHORT-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	870	11	SHORT-TERM ON-THE-JOB TRAINING
32502	REGISTERED NURSES	850	6	ASSOCIATE DEGREE
55305	RECEPTIONISTS, INFORMATION CLERKS	830	11	SHORT-TERM ON-THE-JOB TRAINING
63047	GUARDS AND WATCH GUARDS	730	11	SHORT-TERM ON-THE-JOB TRAINING
58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	710	11	SHORT-TERM ON-THE-JOB TRAINING
87102	CARPENTERS	690	9	LONG-TERM ON-THE-JOB TRAINING
49021	STOCK CLERKS--SALES FLOOR	650	11	SHORT-TERM ON-THE-JOB TRAINING
85132	MAINT REPAIRERS, GENL UTILITY	640	9	LONG-TERM ON-THE-JOB TRAINING
65026	COOKS--RESTAURANT	630	9	LONG-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	610	6	ASSOCIATE DEGREE
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	610	11	SHORT-TERM ON-THE-JOB TRAINING
65017	COUNTER ATTENDANTS--FOOD	600	11	SHORT-TERM ON-THE-JOB TRAINING
55338	BOOKKEEPING, ACCOUNTING CLERKS	590	10	MODERATE-TERM ON-THE-JOB TRAINING
93956	ASSEMB, FABRICATORS--EX MACH,ELECTRIC	590	11	SHORT-TERM ON-THE-JOB TRAINING
55108	SECRETARIES, GENERAL	570	7	POST-SECONDARY VOCATIONAL EDUCATION
49017	COUNTER AND RENTAL CLERKS	560	11	SHORT-TERM ON-THE-JOB TRAINING
27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	510	5	BACHELOR'S DEGREE



**Table 7**  
**Occupations With The Most Openings (1)**  
**(Growth plus Separations)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
97947	INDUSTRIAL TRUCK,TRACTOR OPERATORS	490	11	SHORT-TERM ON-THE-JOB TRAINING
63017	CORRECTION OFFICERS, JAILERS	460	9	LONG-TERM ON-THE-JOB TRAINING
53905	TEACHER AIDES & EDUC ASSTS, CLERKS	450	11	SHORT-TERM ON-THE-JOB TRAINING
85302	AUTOMOTIVE MECHANICS	410	9	LONG-TERM ON-THE-JOB TRAINING
27308	HUMAN SERVICES WORKERS	400	10	MODERATE-TERM ON-THE-JOB TRAINING
53102	TELLERS	400	11	SHORT-TERM ON-THE-JOB TRAINING
87202	ELECTRICIANS	400	9	LONG-TERM ON-THE-JOB TRAINING
49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	380	10	MODERATE-TERM ON-THE-JOB TRAINING
98312	HELPERS--CARPENTERS AND RELATED	380	11	SHORT-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	350	9	LONG-TERM ON-THE-JOB TRAINING
31311	TEACHERS--SPECIAL EDUCATION	340	5	BACHELOR'S DEGREE
93914	WELDERS AND CUTTERS	340	7	POST-SECONDARY VOCATIONAL EDUCATION
91321	MACH FORMING OPS,TENDRS--MET, PLASTIC	320	10	MODERATE-TERM ON-THE-JOB TRAINING
13002	FINANCIAL MANAGERS	300	4	WORK EXPERIENCE, PLUS A BACHELOR'S OR HIGHER
21114	ACCOUNTANTS AND AUDITORS	300	5	BACHELOR'S DEGREE
67002	MAIDS AND HOUSEKEEPING CLEANERS	300	11	SHORT-TERM ON-THE-JOB TRAINING
81002	FIRST-LINE SUP/MGR-MECH, REPAIR	300	8	WORK EXPERIENCE
66011	HOME HEALTH CARE WORKERS	290	11	SHORT-TERM ON-THE-JOB TRAINING
58028	TRAFFIC, SHIPPING, RECEIVING CLERKS	280	11	SHORT-TERM ON-THE-JOB TRAINING
79011	GRADERS, SORTERS--AG PRODUCTS	280	11	SHORT-TERM ON-THE-JOB TRAINING
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>38,590</b>		

(1) Excludes not elsewhere classified (NEC) categories.

**Table 8**  
**Occupations With Projected Declines (1)**  
**1997 - 2004**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF JOB DECLINES	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1997 (2)	2004				
93935	CANNERY WORKERS	1,150	780	-370	180	11	SHORT-TERM ON-THE-JOB TRAINING
83005	PROD INSPECTORS, TESTERS, & GRADERS	1,530	1,380	-150	230	8	WORK EXPERIENCE
55307	TYPISTS, INCLUDING WORD PROCESSORS	660	600	-60	90	10	MODERATE-TERM ON-THE-JOB TRAINING
92917	COOKING MACH OPS, TNDRS-FOOD, TOB	80	60	-20	10	10	MODERATE-TERM ON-THE-JOB TRAINING
97805	SERVICE STATION ATTENDANTS	170	160	-10	50	11	SHORT-TERM ON-THE-JOB TRAINING
92962	SEPARATING, STILL MACH OPS, TENDERS	120	110	-10	20	10	MODERATE-TERM ON-THE-JOB TRAINING
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>3,710</b>	<b>3,090</b>	<b>-620</b>	<b>580</b>		

(1) Excludes not elsewhere classified (NEC) categories.

(2) March 1998 Benchmark





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# Appendix



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ABLE SEAMEN	854	97514
ACCOUNTANTS AND AUDITORS	30	21114
ACCOUNTANTS, AUDIT, FINANCE SPECIALISTS	25	21100
ACTUARIES	114	25313
ADJUDICATORS, JUDICIAL REVIEWERS	137	28105
ADJUSTMENT CLERKS	309	53123
ADMINISTRATIVE SERVICES MANAGERS	7	13014
ADVERTISING CLERKS	333	53908
AERONAUT, ASTRONAUTICAL ENGINEERS	53	22102
AGRICULTURE, FORESTRY, FISHING--NEC	489	79999
AGRICULTURAL SCIENCES TEACHERS, POSTSECONDARY	150	31201
AGRICULTURAL AND FOOD SCIENTISTS	91	24305
AGRICULTURAL ENGINEERS	60	22123
AGRICULTURAL, FORESTRY, FISHING	466	70000
AIR DISPATCHERS, AIR TRAFFIC CONTROLLER	267	39002
AIR HAMMER OPERATORS	596	87702
AIR TRANSPORTATION WORKERS	857	97700
AIRCRAFT ASSEMBLERS--PRECISION	791	93102
AIRCRAFT ENGINE SPECIALISTS	525	85326
AIRCRAFT MECHANICS	524	85323
AIRCRAFT PILOTS, FLIGHT ENGINEERS	858	97702
AMBULANCE DRIVERS & ATTENDANTS, EX EMER MED TECHS	440	66023
AMUSEMENT, RECREATION ATTENDANTS	454	68014
ANIMAL BREEDERS	479	79015
ANIMAL CARETAKERS--EXCEPT FARM	481	79017
ANIMAL TRAINERS	480	79016
ANNOUNCERS--EX RADIO, TELEVISION	252	34021
ANNOUNCERS--RADIO AND TELEVISION	251	34017
ANTHRO & SOCIOLOGY TEACHERS, POSTSECONDARY	166	31231
APPRAISERS--REAL ESTATE	279	43011
ARCHITECTS AND SURVEYORS	68	22300
ARCHITECTS--EX LANDSCAPE, MARINE	69	22302
ARCHITECTURE TEACHERS, POSTSECONDARY	162	31223
AREA, ETHNIC, & CULT STUDIES TEACHERS, POSTSECONDARY	167	31232
ART, DRAMA, MUSIC TEACHERS, POSTSECONDARY	160	31218
ARTISTS AND RELATED WORKERS	257	34035
ASSEMB, FABRICATORS--EX MACH, ELECT, PRECISION	817	93956
ASSEMBLERS AND FABRICATORS--HAND WORKING	789	93000
ASSEMBLERS, NEC--PRECISION	797	93197
ASSEMBLERS, PRECISION	790	93100
ASSESSORS	48	21917
ATHLETES, COACHES, UMPIRERS, RELATED	265	34058
ATMOSPHERIC AND SPACE SCIENTISTS	86	24108
AUDIO-VISUAL SPECIALISTS	198	31508
AUTOMOTIVE BODY, RELATED REPAIRERS	518	85305
AUTOMOTIVE MECHANICS	517	85302
AUXILIARY EQUIPMENT OPERATORS--POWER	827	95023
BAGGAGE PORTERS AND BELLHOPS	457	68023
BAILIFFS	406	63023
BAKERS--BREAD AND PASTRY	423	65021



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
BAKERS--MANUFACTURING	672	89805
BANKING, SECURITY, FINANCE, CREDIT	301	53100
BARBERS	450	68002
BARTENDERS	418	65005
BICYCLE REPAIRERS	563	85951
BILL AND ACCOUNT COLLECTORS	321	53508
BILLING, COST, AND RATE CLERKS	355	55344
BILLING, POSTING, CALCULATING MACHINE OPERATORS	358	56002
BINDERY MACH SETTERS, SET-UP OPERATORS	743	92525
BINDERY MACHINE OPERATORS	748	92546
BIOLOGICAL SCIENTISTS	92	24308
BIOLOGICAL, AGRICULTURAL &, FOOD TECHS EX HEALTH	96	24502
BLASTERS AND EXPLOSIVES WORKERS	612	87905
BOILER OPS, TENDERS--LOW PRESSURE	770	92926
BOILERMAKERS	638	89135
BOOKBINDERS	668	89721
BOOKKEEPING, ACCOUNTING CLERKS	353	55338
BRATTICE BUILDERS	574	87121
BRICK MASONS	578	87302
BRIDGE, LOCK, LIGHTHOUSE TENDERS	860	97802
BROADCAST NEWS ANALYSTS	250	34014
BROADCAST TECHNICIANS	255	34028
BROKERAGE CLERKS	311	53128
BROKERS--REAL ESTATE	277	43005
BUDGET ANALYSTS	31	21117
BUS AND TRUCK MECHANICS	520	85311
BUS DRIVERS	836	97108
BUS DRIVERS--SCHOOL	837	97111
BUSINESS TEACHERS, POSTSECONDARY	174	31242
BUTCHERS AND MEAT CUTTERS	424	65023
CABINETMAKERS AND BENCH CARPENTERS	644	89311
CAMERA OPERATORS	663	89713
CAMERA OPS--TV AND MOTION PICTURE	254	34026
CAMERA, PHOTOGRAPHIC EQUIPMENT REPAIRERS	552	85914
CANNERY WORKERS	810	93935
CAPTAINS--WATER VESSEL	850	97502
CARDIOLOGY TECHNOLOGISTS	239	32925
CARPENTERS	569	87102
CARPENTERS AND RELATED WORKERS	568	87100
CARPET CUTTERS, DIAGRAMMERS, SEAMERS	809	93932
CARPET INSTALLERS	592	87602
CARPET, FLOOR INSTALLERS	591	87600
CASHIERS	293	49023
CEILING TILE INSTALLERS	570	87105
CEMENTING, GLUING MACHINE OPERATORS, TENDERS	780	92956
CENTRAL OFFICE AND PBX INSTALLERS	529	85502
CENTRAL OFFICE OPERATORS	370	57108
CHEMICAL TECHNICIANS & TECHNOLOGISTS--EX HEALTH	97	24505
CHEMICAL ENGINEERS	57	22114
CHEMICAL EQUIPMENT CONTROLLERS, OPERATORS	773	92935

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
CHEMICAL EQUIPMENT TENDERS	774	92938
CHEMICAL PLANT, SYSTEM OPERATORS	822	95008
CHEMISTRY TEACHERS, POSTSECONDARY	152	31204
CHEMISTS, EXCEPT BIOCHEMISTS	85	24105
CHILD CARE WORKERS	462	68038
CHIROPRACTORS	209	32113
CHOKE SETTERS	471	73005
CIVIL ENGINEERING TECHNICIANS	74	22502
CIVIL ENGINEERS--INCLUDING TRAFFIC	59	22121
CLAIMS EXAMINERS--INSURANCE	49	21921
CLAIMS TAKERS--UNEMPLOYMENT BENEFITS	38	21502
CLEANING, BUILDING SERVICE--EX PRIVATE HOUSES	443	67000
CLEANING, BUILDING SERVICE--EX PRIVATE HOUSES, NEC	448	67099
CLEANING, PICKLING EQUIPMENT OPERATORS, TENDERS	781	92958
CLERGY	131	27502
CLERICAL & ADMINISTRATIVE SUPPORT WORKERS, NEC	391	59999
CLERICAL, ADMINISTRATIVE SUPPORT, NEC	390	59000
CLERICAL, ADMINISTRATIVE SUPPORT	298	50000
COIL WINDERS, TAPERS, FINISHERS	801	93908
COIN, VENDING MACHINE SERVICERS	562	85947
COMB MACHINE TOOL OPERATORS--METAL, PLASTIC	705	91508
COMB MACHINE TOOL SETTERS--METAL, PLASTIC	704	91505
COMBINED FOOD PREPARATION AND SERVICE	430	65041
COMM EQUIPMENT MECHANICS, INSTALLERS, & REPAIRERS	528	85500
COMM EQUIPMENT MECHANICS, INSTALLERS, & REPAIR, NEC	534	85599
COMM, TRANSPORTATION, UTILITIES OPERATIONS MGRS	16	15023
COMMUNICATION EQUIPMENT OPERATORS, NEC	372	57199
COMMUNICATION EQUIPMENT OPERATORS	367	57100
COMMUNICATIONS TEACHERS, POSTSECONDARY	157	31213
COMMUNICATIONS, MAIL DISTRIBUTION	366	57000
COMPLIANCE OFFICERS, ENFORCE INSPECT--EX CONSTRUCTION	46	21911
COMPUTER ENGINEERS	62	22127
COMPUTER OPERATORS--EX PERIPHERAL EQUIPMENT	361	56011
COMPUTER PROGRAMMER AIDES	107	25108
COMPUTER PROGRAMMERS	106	25105
COMPUTER SCIENCE TEACHERS, POSTSECONDARY	164	31226
COMPUTER SCIENTISTS AND RELATED	102	25100
COMPUTER SCIENTISTS, RELATED WORKERS, NEC	109	25199
COMPUTER SUPPORT SPECIALISTS	105	25104
COMPUTER, MATHEMATICAL, OPS RESEARCH, & RELATED	101	25000
CONCRETE AND TERRAZZO FINISHERS	581	87311
CONSTRUCTION AND BUILDING INSPECTORS	45	21908
CONSTRUCTION TRADES, EXTRACTIVE--HELPERS	889	98300
CONSTRUCTION, EXTRACTIVE--EX HELPERS, NEC	624	87999
CONSTRUCTION MANAGERS	14	15017
CONSTRUCTION TRADES	567	87000
CONSTRUCTION TRADES WORKERS, NEC	609	87899
CONSTRUCTION TRADES, NEC	601	87800
CONTINUOUS MINING MACHINE OPERATOR	620	87941
CONVEYOR OPERATORS AND TENDERS	881	97951



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
COOKING MACHINE OPS,TENDERS-FOOD,TOBACCO	767	92917
COOKS--INSTITUTION OR CAFETERIA	426	65028
COOKS--RESTAURANT	425	65026
COOKS--SHORT ORDER	428	65035
COOKS--SPECIALTY FAST FOOD	427	65032
COOLING, FREEZING EQUIPMENT OPERATORS, TENDERS	771	92928
CORRECTION OFFICERS, JAILERS	404	63017
CORRECTIVE, MANUAL ARTS THERAPISTS	216	32311
CORRESPONDENCE CLERKS	346	55317
COST ESTIMATORS	43	21902
COUNTER AND RENTAL CLERKS	291	49017
COUNTER ATTENDANTS--FOOD	422	65017
COURT CLERKS	323	53702
CRANE AND TOWER OPERATORS	879	97944
CREDIT ANALYSTS	27	21105
CREDIT AUTHORIZERS	306	53114
CREDIT CHECKERS	307	53117
CRIMINAL INVESTIGATORS, FEDERAL	408	63028
CRIMINAL JUSTICE & LAW ENFORCEMENT TEACHERS,	176	31246
CROSSING GUARDS	413	63044
CRUSHING, MIXING MACHINE OPERATORS, TENDERS	783	92965
CURATORS, ARCHIVISTS, AND RELATED	199	31511
CUSTOM TAILORS AND SEWERS	649	89505
CUSTOMER SERVICE REPRESENTATIVES--UTILITIES	352	55335
CUTTING, FORMING, FABRICATING, PROCESS MACH SETTER	728	92197
CUTTING, FORMING, FABRICATING, PROCESS MACH OPS	729	92198
CUTTING & SLICING MACHINE SETTERS & SET-UP OPS	775	92941
CUTTERS AND TRIMMERS--HAND	807	93926
CUTTING & SLICING MACHINE OPERATORS & TENDERS	776	92944
DAIRY PROCESSING EQUIPMENT OPERATORS--INC SETTERS	772	92932
DANCERS AND CHOREOGRAPHERS	263	34053
DATA BASE ADMINISTRATORS	104	25103
DATA ENTRY KEYERS--EX COMPOSING	363	56017
DATA KEYERS--COMPOSING	364	56021
DATA PROCESSING EQUIPMENT REPAIRERS	537	85705
DEMONSTRATORS AND PROMOTERS	295	49034
DENTAL ASSISTANTS	433	66002
DENTAL HYGIENISTS	233	32908
DENTAL LABORATORY TECHNICIANS, PRECISION	682	89921
DENTISTS	206	32105
DERRICK OPERATORS--OIL, GAS EXTRACTION	615	87914
DESIGNERS, EX INTERIOR DESIGNERS	258	34038
DETAIL DESIGN DECORATORS, PAINTERS	679	89911
DETECTIVES, INVESTIGATORS--EX PUBLIC	410	63035
DIETETIC TECHNICIANS	229	32523
DIETITIANS AND NUTRITIONISTS	228	32521
DINING ROOM ATTENDANTS, BAR HELPERS	421	65014
DIRECTORS--RELIGIOUS ACTIVITIES, EDUC	132	27505
DIRECTORY ASSISTANCE OPERATORS	369	57105
DISPATCH--EX POLICE, FIRE, AMBULANCE	380	58005



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
DISPATCH--POLICE, FIRE, AMBULANCE	379	58002
DRAFTERS	78	22514
DRAGLINE OPERATORS	873	97926
DREDGE OPERATORS, DIPPER TENDERS	874	97928
DRILLING MACHINE SETTER--METAL, PLASTIC	690	91108
DRIVER/SALES WORKERS	839	97117
DRYWALL INSTALLERS	571	87108
DUPLICATING MACHINE OPERATORS	359	56005
DYERS, PRECISION	654	89521
EARTH DRILLERS, EXCEPT OIL AND GAS	611	87902
ECONOMICS TEACHERS, POSTSECONDARY	168	31233
ECONOMISTS--INCL MARKET RESEARCH ANALYST	120	27102
EDP AND OFFICE MACHINE OCCUPATIONS	357	56000
EDUCATION ADMINISTRATORS	10	15005
EDUCATION TEACHERS, POSTSECONDARY	178	31252
ELECTRICAL INSTALLERS--TRANSPORTATION EQUIPMENT	545	85728
ELECTRICAL AND ELECTRONIC ENGINEERS	61	22126
ELECTRICAL EQUIPMENT MECHANICS, NEC	546	85799
ELECTRIC HOME APPLIANCE & POWER TOOL REPAIRERS	539	85711
ELECTRONIC HOME ENTERTAINMENT EQUIP REPAIRERS	538	85708
ELECTRIC METER INSTALLERS, REPAIRERS	551	85911
ELECTRIC MOTOR, AND RELATED REPAIRERS	540	85714
ELECTRICAL POWERLINE INSTALLERS	543	85723
ELECTRONICS REPAIRERS--COMMERCIAL & INDUSTRIAL	541	85717
ELECTRICAL & ELECTRONIC ENGINEERING TECHS & TECHNOS	75	22505
ELECTRICAL EQUIPMENT ASSEMBLERS--PRECISION	795	93114
ELECTRICAL, ELECTRONIC ASSEMBLERS	800	93905
ELECTRICIANS	576	87202
ELECTRICIANS AND RELATED WORKERS	575	87200
ELECTROCARDIOGRAPH TECHNICIANS	240	32926
ELECTROLYTIC PLATING, MACHINE OPERATORS	719	91921
ELECTROLYTIC PLATING, MACHINE SETTER	718	91917
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS--PRECISION	794	93111
ELECTROMEDICAL, BIOMEDICAL EQUIPMENT REPAIRER	550	85908
ELECTRONEURODIAGNOSTIC TECHNOLOGISTS	238	32923
ELECTRONIC PAGINATION SYSTEM WORKERS	660	89707
ELECTRONIC SEMICONDUCTOR PROCESSOR	762	92902
ELEVATOR INSTALLERS AND REPAIRERS	558	85932
ELEVATOR OPERATORS	447	67011
EMBALMERS	271	39014
EMERGENCY MEDICAL TECHNICIANS	223	32508
EMPLOYMENT INTERVIEWERS--PRIVATE OR PUBLIC	40	21508
ENGINEER, MATH, AND NATURAL SCIENCE MANAGERS	8	13017
ENGINEERING TEACHERS, POSTSECONDARY	161	31222
ENGINEERING, RELATED TECHNICIANS	73	22500
ENGINEERING, RELATED TECHS & TECHNOS, NEC	81	22599
ENGINEERS	52	22100
ENGINEERS, ARCHITECTS, SURVEYORS	51	22000
ENGINEERS, NEC	67	22199
ENGLISH LANG & LIT TEACHERS, POSTSECONDARY	158	31214

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ENGRAVING, PRINTING WORKERS--HAND	815	93951
ESTIMATORS, DRAFTERS--UTILITIES	79	22517
ETCHERS, ENGRAVERS--PRECISION	636	89128
EXCAVATING, LOADING MACHINE OPERATORS	872	97923
EXTRACTIVE AND RELATED WORKERS	610	87900
EXTRACTIVE WORKERS--EX HELPERS, NEC	623	87989
EXTRUDING MACHINE OPS, TENDERS--SYNTHETIC/GLASS	753	92708
EXTRUDING MACHINE SETTERS--METAL, PLASTIC	698	91311
EXTRUDING, FORMING MACHINE OPERATORS, TENDERS	785	92971
EXTRUDING, FORMING, SETTERS & SET-UP OPERATORS	784	92968
FALLERS AND BUCKERS	470	73002
FARM AND HOME MANAGEMENT ADVISORS	193	31323
FARM EQUIPMENT MECHANICS	523	85321
FARM EQUIPMENT OPERATORS	482	79021
FARMWORKERS-FARM/RANCH ANIMALS	488	79858
FARMWORKERS-FOOD, FIBER CROPS	487	79856
FENCE ERECTORS	608	87817
FILE CLERKS	347	55321
FILM EDITORS	256	34032
FINANCIAL ANALYSTS, STATISTICAL	115	25315
FINANCIAL MANAGERS	3	13002
FINANCIAL SPECIALISTS, NEC	32	21199
FIRE FIGHTERS	401	63008
FIRE FIGHTING & PREVENTION SUPERVISORS	394	61002
FIRE INSPECTORS	399	63002
FIRST-LINE SUP/MGR SERVICE WORKERS, NEC	397	61099
FIRST-LINE SUP/MGR, CLERICAL, ADMINISTRATIVE SUPPORT	299	51000
FIRST-LINE SUP/MGR--AGRICULTURAL, FORESTRY, FISHING	467	72000
FIRST-LINE SUP/MGR-BLUE COLLAR	491	81000
FIRST-LINE SUP/MGR-BLUE COLLAR NEC	497	81099
FIRST-LINE SUP/MGR-CONSTRUCTION	493	81005
FIRST-LINE SUP/MGR-HELP, LABORERS	496	81017
FIRST-LINE SUP/MGR-MECHANICS, INSTALLERS, REPAIRERS	492	81002
FIRST-LINE SUP/MGR-PRODUCTION	494	81008
FIRST-LINE SUP/MGR--SALES	274	41000
FIRST-LINE SUP/MGR--SERVICE	393	61000
FIRST-LINE SUP/MGR-TRANSPORTATION	495	81011
FIRST-LINE SUPERVISORS - AGRICULTURE	468	72002
FISH AND GAME WARDENS	412	63041
FITTERS, STRUCTURAL METAL--PRECISION	793	93108
FLIGHT ATTENDANTS	458	68026
FLOOR LAYERS--EX CARPET, WOOD, TILES	593	87605
FLOOR SANDING MACHINE OPERATORS	594	87608
FOOD AND TOBACCO WORKERS, NEC	674	89899
FOOD BATCHMAKERS	673	89808
FOOD PREPARATION WORKERS	429	65038
FOOD SERVERS--OUTSIDE	420	65011
FOOD SERVICE AND LODGING MANAGERS	17	15026
FOOD SERVICE WORKERS, NEC	431	65099
FOOD WORKERS, PRECISION	670	89800



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
FOOD, BEVERAGE PREPARATION AND SERVICE OCCS	416	65000
FOREIGN LANG & LITERATURE TEACHERS, POSTSECONDARY	159	31215
FOREST FIRE INSPECTORS, PREVENT SPECIALISTS	400	63005
FOREST, CONSERVATION WORKERS	476	79002
FORESTERS, CONSERVATION SCIENTISTS	90	24302
FORGING MACHINE SETTERS--METAL, PLASTIC	700	91317
FOUNDRY MOLD ASSEMBLY, SHAKEOUT	717	91914
FOUNDRY MOLD,CORE MAKERS,PRECISION	676	89902
FRAME WIRERS, CENTRAL OFFICE	530	85505
FREIGHT, MATERIAL MOVERS-HAND, NEC	903	98799
FREIGHT, STOCK, MATERIAL MOVERS, HAND	900	98700
FUNERAL ATTENDANTS	463	68041
FUNERAL DIRECTORS AND MORTICIANS	270	39011
FURNACE OPERATORS AND TENDERS	724	91935
FURNACE, KILN, KETTLE OPERATORS, TENDERS	769	92923
FURNITURE FINISHERS	645	89314
GAS APPLIANCE REPAIRERS	561	85944
GAS COMPRESSOR OPERATORS	871	97921
GAS PLANT OPERATORS	821	95005
GAS PUMPING STATION OPERATORS	870	97917
GAUGERS	825	95017
GEM AND DIAMOND WORKERS	684	89926
GENERAL MANAGERS, TOP EXECUTIVES	21	19005
GENERAL OFFICE CLERKS	356	55347
GEOGRAPHY TEACHERS, POSTSECONDARY	169	31234
GEOLOGIST, GEOPHYSICISTS, OCEANOGRAPHERS	87	24111
GLAZIERS	606	87811
GLAZIERS, MANUFACTURING	802	93911
GRADER, DOZER, SCRAPER OPERATORS	877	97938
GRADERS, SORTERS--AGRICULTURAL PRODUCTS	478	79011
GRADUATE ASSISTANTS, TEACHING	149	31117
GRINDING MACHINE SETTER--METAL,PLASTIC	692	91114
GRINDING, POLISHING WORKERS--HAND	816	93953
GUARDS AND WATCH GUARDS	414	63047
GUIDES	455	68017
HAIRDRESSERS, HAIRSTYLISTS	451	68005
HAND COMPOSITORS AND TYPESETTERS	657	89702
HAND PACKERS AND PACKAGERS	905	98902
HAND WORKERS, NEC	818	93999
HAND WORKERS--JEWELRY, PRECISION	635	89126
HARD TILE SETTERS	580	87308
HAZARDOUS MATERIALS REMOVAL WORKERS	603	87803
HEAD SAWYERS	732	92305
HEALTH ASSESSMENT & TREATMENT TEACHERS, POSTSEC	156	31212
HEALTH CARE MAINTENANCE, TREATING	220	32500
HEALTH CARE PROFESSIONALS, PARAPROFS, NEC	244	32999
HEALTH DIAGNOSING, TREATING	204	32100
HEALTH DIAGNOSING, TREATING, NEC	211	32199
HEALTH DIAGNOSTICS TEACHERS, POSTSECONDARY	155	31211
HEALTH PRACTITIONERS, TECHS, RELATED	203	32000



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
HEALTH SERVICE WORKERS, NEC	442	66099
HEALTH SERVICE, RELATED OCCS	432	66000
HEAT TREATING MACHINE OPS, TENDERS	723	91932
HEATERS, METAL & PLASTIC	725	91938
HEATING EQUIP SETTERS-METAL, PLASTIC	722	91928
HEATING, AC, REFRIGERATION MECHANICS	548	85902
HELPERS, LABORERS, HAND--EX AGRICULTURE & FORESTRY	886	98000
HELPERS--BRICK,STONE MASONS	890	98311
HELPERS--CARPENTERS AND RELATED	891	98312
HELPERS--CONSTRUCTION TRADES, NEC	896	98319
HELPERS--ELECTRICIANS, POWERLINE INSTALLERS	892	98313
HELPERS--EXTRACTIVE WORKERS	897	98323
HELPERS--PAINTERS AND RELATED	893	98314
HELPERS--PLUMBERS AND RELATED	894	98315
HELPERS--ROOFERS	895	98316
HIGHWAY MAINTENANCE WORKERS	599	87711
HISTORY TEACHERS, POSTSECONDARY	170	31235
HOIST AND WINCH OPERATORS	878	97941
HOME ECONOMICS TEACHERS, POSTSECONDARY	182	31262
HOME HEALTH CARE WORKERS	436	66011
HOSTS, HOSTESSES--RESTAURANTS	417	65002
HOTEL DESK CLERKS	329	53808
HOUSEKEEPING SUPERVISORS	396	61008
HUMAN SERVICES WORKERS	128	27308
INDUSTRIAL ENGINEERING TECHS & TECHNOS	76	22508
INDUST ENGINEERS--EXCEPT SAFETY	63	22128
INDUSTRIAL PRODUCTION MANAGERS	13	15014
INDUSTRIAL TRUCK,TRACTOR OPERATORS	880	97947
INDUSTRY SPECIFIC CLERICAL, ADMINISTRATIVE SUPPORT	300	53000
INSURANCE ADJUSTERS, EXAMINERS, INVESTIGATORS	313	53302
INSPECTORS, RELATED OCCUPATIONS	498	83000
INSPECTORS, TESTERS, RELATED, NEC	502	83099
INSPECTORS,TESTERS,& GRADERS,PRECISION	499	83002
INSTALLER & REPAIRER, MOBILE HOME	560	85938
INSTRUCTIONAL COORDINATORS	201	31517
INSTRUCTORS AND COACHES--SPORTS	192	31321
INSTRUCTORS--NON-VOCATIONAL EDUCATION	191	31317
INSTRUMENT MAKERS, PRECISION	628	89105
INSTRUMENT REPAIRERS, PRECISION	549	85905
INSULATION WORKERS	602	87802
INSURANCE APPRAISERS--AUTO DAMAGE	314	53305
INSURANCE CLAIMS CLERKS	316	53311
INSURANCE EXAMINING CLERKS	315	53308
INSURANCE POLICY PROCESSING CLERKS	317	53314
INSURANCE WORKERS	312	53300
INTERIOR DESIGNERS	259	34041
INTERVIEW CLERKS--EX PERSONNEL, WELFARE	351	55332
INVESTIGATIVE, RELATED, EX INSURANCE	318	53500
INVESTIGATORS--CLERICAL	320	53505
JANITORS, CLEANERS--EXCEPT MAIDS	445	67005

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
JEWELERS AND SILVERSMITHS	634	89123
JOB PRINTERS	658	89705
JUDGES AND MAGISTRATES	136	28102
LABORERS, LANDSCAPING/GROUNDSKEEPING	485	79041
LANDSCAPE ARCHITECTS	71	22308
LATHE MACHINE SETTERS--METAL, PLASTIC	689	91105
LATHERS	573	87114
LAW AND RELATED OCCUPATIONS	134	28000
LAW CLERKS	140	28302
LAW TEACHERS, POSTSECONDARY	175	31244
LAWN SERVICE MANAGER	19	15032
LAWYERS	138	28108
LAWYERS AND RELATED WORKERS	135	28100
LAYOUT WORKERS--METAL, PRECISION	632	89117
LECTURERS	147	31111
LEGAL ASSISTANTS, TECHNICIANS, EX CLERICAL	139	28300
LEGAL ASSISTANTS, TECHNICIANS--EX CLERICAL, NEC	144	28399
LETTERPRESS SETTERS, SET-UP OPERATORS	739	92515
LIBRARIANS, ARCHIVISTS AND RELATED	195	31500
LIBRARIANS--PROFESSIONAL	196	31502
LIBRARY ASSISTANTS & BOOKMOBILE DRIVERS	331	53902
LIBRARY SCIENCE TEACHERS, POSTSECONDARY	180	31256
LICENSE CLERKS	325	53708
LICENSED VOCATIONAL NURSES	222	32505
LIFE SCIENCES TEACHERS, POSTSECONDARY	151	31202
LIFE SCIENTISTS	89	24300
LIFE SCIENTISTS, NEC	94	24399
LITHOGRAPHY & PHOTOENGRAVING WORKERS, NEC	667	89719
LITHOGRAPHY & PHOTOENGRAVING, PRECISION	661	89710
LAUNDRY, DRYCLEAN MACH OPS--EX PRESS	759	92726
LOADING MACHINE OPERATORS--MINING	875	97932
LOAN AND CREDIT CLERKS	308	53121
LOAN INTERVIEWERS	305	53111
LOAN OFFICERS AND COUNSELORS	28	21108
LOCKSMITHS AND SAFE REPAIRERS	555	85923
LOCOMOTIVE ENGINEERS	843	97305
LOCOMOTIVE FIRERS	845	97311
LODGING AND TRAVEL WORKERS	326	53800
LOG GRADERS AND SCALERS	477	79008
LOG HANDLING EQUIPMENT OPERATORS	472	73008
LOGGING TRACTOR OPERATORS	473	73011
LONGSHORE EQUIPMENT OPERATORS	865	97902
MACHINE BUILDERS & OTHER PRECISION MACH ASSEMBLER	792	93105
MACHINE FORMING OPS, TENDERS--METAL, PLASTIC	701	91321
MACHINE FORMING SETTERS--METAL, PLASTIC	694	91300
MACHINE SETTER, SET-UP, OP--EX METAL, PLASTIC	761	92900
MACHINE SETTERS, SET-UP OPERATORS, & TENDERS	686	91000
MACHINE TOOL CUTTING OPS--METAL, PLASTIC	693	91117
MACHINE TOOL CUTTING--METAL, PLASTIC	687	91100
MACHINE TOOL SETTERS, OPS--METAL, PLASTIC	702	91500



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MACHINE ASSEMBLERS	799	93902
MACHINE FEEDERS AND OFFBEARERS	898	98500
MACHINE FEEDERS AND OFFBEARERS, NEC	899	98502
MACHINE OPERATORS AND TENDERS, NEC	788	92998
MACHINE SETTERS & SET-UP OPERATORS, NEC	787	92997
MACHINERY AND RELATED MECHANICS	504	85100
MACHINERY MAINT MECHANICS, NEC	511	85119
MACHINERY MAINTENANCE MECHANICS	505	85110
MACHINERY MAINTENANCE WORKERS	514	85128
MACHINISTS	629	89108
MAIDS AND HOUSEKEEPING CLEANERS	444	67002
MAIL CLERKS-EX MAIL MACHINE OPERATORS, POSTAL	374	57302
MAIL MACHINE OPERATORS--PREP AND HANDLING	360	56008
MAIL, MESSAGE DISTRIBUTION WORKERS	373	57300
MAIN LINE STATION ENGINEERS	869	97914
MAINTENANCE MECHANICS--MARINE EQUIP	508	85116
MAINTENANCE MECHANICS--WATER, POWER	510	85118
MAINTENANCE REPAIRERS, GENERAL UTILITY	515	85132
MAINTENANCE MECHANICS--SEWING MACHINE	507	85113
MAINTENANCE MECHANICS--TEXTILE	506	85112
MANAGEMENT ANALYSTS	44	21905
MANAGEMENT SUPPORT OCCUPATIONS	24	21000
MANAGEMENT SUPPORT WORKERS, NEC	50	21999
MANAGERS AND ADMINISTRATORS, NEC	22	19999
MANICURISTS	452	68008
MARINE ARCHITECTS	70	22305
MARINE ENGINEERS	66	22138
MARKING CLERKS	385	58021
MASONS AND RELATED WORKERS	577	87300
MATERIAL MOVEMENT EQUIPMENT OPERATORS	864	97900
MATERIAL MOVING EQUIP OPERATORS, NEC	884	97989
MATERIAL RECORDING, DISPATCHING	378	58000
MATERIAL RECORDING, RELATED, NEC	389	58099
MATES--SHIP, BOAT, AND BARGE	851	97505
MATH SCIENTISTS AND RELATED	110	25300
MATHEMATICAL SCIENCES TEACHERS, POSTSECONDARY	163	31224
MATHEMATICAL SCIENTISTS	112	25310
MATHEMATICAL SCIENTISTS, NEC	116	25319
MATHEMATICAL TECHNICIANS	117	25323
MEAT, POULTRY, FISH CUTTERS--HAND	811	93938
MECHANICAL CONTROL, VALVE INSTALLERS	557	85928
MECHANIC AND REPAIRER HELPERS	887	98100
MECHANIC AND REPAIRER HELPERS, NEC	888	98102
MECHANICAL ENGINEERING TECHNICIANS	77	22511
MECHANICAL ENGINEERS	65	22135
MECHANICS, INSTALLERS, REPAIRERS	503	85000
MECHANICS, NEC	527	85399
MECHANICS, INSTALLERS, REPAIRERS, NEC	566	85999
MEDICAL, CLINICAL LAB ASSISTANTS	232	32905
MEDICAL, CLINICAL LAB TECHNOLOGISTS	231	32902



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MEDICAL APPLIANCE MAKERS	683	89923
MEDICAL ASSISTANTS	434	66005
MEDICAL RECORDS TECHNICIANS	234	32911
MEDICAL SCIENTISTS	93	24311
MEDICINE, HEALTH SERVICES MANAGERS	11	15008
MENDERS, GARMENTS AND LINENS	565	85956
MERCHANDISE DISPLAYERS, WINDOW TRIMMERS	260	34044
MERCHANDISE, PRODUCTS AND OTHER SALES	285	49000
MESSENGERS	377	57311
METAL FABRICATING MACH SETTERS, OPS	706	91700
METAL FABRICATOR, STRUCTURAL METAL PRODUCTS	711	91714
METAL MOLDING MACHINE OPERATORS AND TENDERS	716	91911
METAL MOLDING, MACHINE SETTER, SET-UP	715	91908
METAL POURERS, CASTERS--BASIC	812	93941
METAL WORKERS, NEC--PRECISION	639	89199
METAL WORKERS, PRECISION	626	89100
METAL, PLASTIC MACHINE SETTERS, OPS NEC	727	92100
METAL, PLASTIC PROCESS MACHINE SETTERS	712	91900
METALLURGISTS, RELATED ENGINEERS	54	22105
METER READERS--UTILITIES	383	58014
MANAGERS AND ADMINISTRATIVE OCCUPATIONS	2	10000
MILLING MACHINE SETTERS--METAL, PLASTIC	691	91111
MILLWRIGHTS	512	85123
MINE CUTTING, CHANNELING MACHINE OPERATORS	621	87943
MINING ENGINEERS--INCL MINE SAFETY	55	22108
MINING MACHINE OPERATORS	619	87940
MINING MACHINE OPERATORS, NEC	622	87949
MINING, OIL AND GAS, RELATED MANAGERS	15	15021
MISC AGRICULTURE, FORESTRY, FISHING	475	79000
MISC HELPERS, LABORERS--HAND	904	98900
MISC HELPERS, LABORERS--HAND, NEC	907	98999
MISC INDUSTRY SPECIFIC CLERICAL	330	53900
MISC MECHANICS, INSTALLERS, REPAIRERS	547	85900
MISC METAL, PLASTIC MACHINE SETTERS OPERATORS	726	91999
MISC PERSONAL SERVICE OCCUPATIONS	449	68000
MISC PROFESSIONALS, PARAPROFS, TECHNICAL	266	39000
MISC SECRETARIAL, GENERAL OFFICE OCCS	341	55300
MISC SERVICE WORKERS	464	69000
MISC TRANSPORTATION WORKERS	859	97800
MARKETING, ADVERTISING, PUBLIC-RELATIONS MANAGERS	6	13011
MOBILE EQUIPMENT MECHANICS, REPAIRERS	516	85300
MOBILE HEAVY EQUIP MECHANICS--EX ENGINE	521	85314
MODELS	296	49036
MOLDERS AND CASTERS--HAND	813	93944
MOLDERS, SHAPERS--EX JEWELRY	677	89905
MOTION PICTURE PROJECTIONISTS	763	92905
MOTOR VEHICLE OPERATORS	833	97100
MOTOR VEHICLE OPERATORS, NEC	840	97199
MOTORBOAT OPERATORS	853	97511
MOTORCYCLE REPAIRERS	519	85308



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MUNICIPAL CLERKS	324	53705
MUNICIPAL WORKERS	322	53700
MUSIC DIRECTORS, SINGERS, COMPOSERS	261	34047
MUSICAL INSTRUMENT REPAIRERS AND TUNERS	554	85921
MUSICIANS--INSTRUMENTAL	262	34051
NATURAL SCIENTISTS AND RELATED WORKERS	82	24000
NUMERICAL TOOL, PROCESS PROGRAMMERS	108	25111
NEW ACCOUNTS CLERKS	303	53105
NONELECTROLYTIC PLATING & COATING MACHINE-OPS	721	91926
NONELECTROLYTIC PLATING MACHINE-SETTERS & SET-UP	720	91923
NUCLEAR ENGINEERS	58	22117
NUCLEAR MEDICINE TECHNOLOGISTS	236	32914
NUCLEAR TECHNICIANS	98	24508
NUMERICAL MACHINE TOOL OPS--METAL, PLASTIC	703	91502
NURSE AIDES, ORDERLIES, ATTENDANTS	435	66008
NURSERY & GREENHOUSE MANAGER	18	15031
NURSING INSTRUCTORS, POSTSECONDARY	148	31114
OCCUPATIONAL THERAPISTS	214	32305
OCCUPATIONAL THERAPY ASSISTANTS	439	66021
OCCUPATIONS NOT CLASSIFIED	908	
OFFICE MACHINE, CASH REGISTER SERVICERS	556	85926
OFFICE MACHINE OPERATORS, NEC	365	56099
OFFSET LITHOGRAPHIC PRESS SETTERS	738	92512
OIL PUMPERS--EXCEPT WELL HEAD	867	97908
OPERATING ENGINEERS	883	97956
OPERATIONS & SYSTEMS RESEARCHERS--EX COMPUTER	111	25302
OPTICAL GOODS WORKERS, PRECISION	681	89917
OPTICIANS--DISPENSING, MEASURING	225	32514
OPTOMETRISTS	207	32108
ORDER CLERKS--MATERIALS, SERVICE	348	55323
ORDER FILLERS--WHOLESALE & RETAIL SALE	387	58026
ORDINARY SEAMEN AND MARINE OILERS	855	97517
OTHER SOCIAL SCIENCE RELATED WORKERS	124	27300
OTHER ELECTRICAL EQUIPMENT MECHANICS	535	85700
OTHER HAND WORKERS	798	93900
OTHER HEALTH PROFESSIONALS, PARAPROFS	230	32900
OTHER MANAGEMENT SUPPORT WORKERS	42	21900
OTHER PRECISION WORKERS	675	89900
OTHER PROFESSIONALS, PARAPROF, TECHNICAL	272	39999
OTHER TEACHERS AND INSTRUCTORS	184	31300
PACKAGING, FILLING MACHINE OPERATORS, TENDERS	786	92974
PAINT, COAT & SPRAY MACHINE SETTERS	778	92951
PAINTERS AND RELATED WORKERS	584	87400
PAINTERS, PAPERHANGERS--CONSTRUCTION	585	87402
PAINTERS, TRANSPORTATION EQUIPMENT	777	92947
PAINTING, COATING, DECORATING--HAND	814	93947
PAINTING, RELATED MACHINE OPERATORS, TENDERS	779	92953
PAPER GOODS MACHINE SETTERS, SET-UP OPERATORS	766	92914
PARALEGAL PERSONNEL	141	28305
PARKING ENFORCEMENT OFFICERS	405	63021



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PARKING LOT ATTENDANTS	862	97808
PARKS, REC, LEISURE, FITNESS STUDIES TEACHERS, POST	181	31258
PASTE UP WORKERS	659	89706
PATTERN AND MODEL MAKERS--METAL	631	89114
PATTERN AND MODEL MAKERS--WOOD	641	89302
PATTERN MARKERS--WOOD	642	89305
PATTERNMAKERS AND LAYOUT WORKERS	648	89502
PATTERNMAKERS, MODEL MAKERS, LAYOUT	678	89908
PAVING, TAMPING-EQUIPMENT OPERATORS	598	87708
PAYROLL AND TIMEKEEPING CLERKS	354	55341
PERIPHERAL EDP EQUIPMENT OPERATORS	362	56014
PERSONNEL CLERKS--EX PAYROLL	345	55314
PERSONNEL, TRAINING, LABOR-RELATIONS MANAGERS	4	13005
PERSONNEL, TRAINING, LABOR-RELATIONS SPECIALISTS	37	21500
PERSONNEL, TRAINING, LABOR-RELATIONS SPECIALISTS, NEC	41	21511
PERSONAL AND HOME CARE AIDES	461	68035
PEST CONTROLLERS AND ASSISTANTS	446	67008
PETROLEUM REFINERY, CONTROL PANEL OPERATORS	824	95014
PETROLEUM ENGINEERS	56	22111
PETROLEUM PUMP SYSTEM OPERATORS	823	95011
PETROLEUM TECHNICIANS	99	24511
PHARMACISTS	226	32517
PHARMACY AIDES	441	66026
PHARMACY TECHNICIANS	227	32518
PHILOSOPHY & RELIGION TEACHERS, POSTSECONDARY	179	31254
PHOTOENGRAVERS	662	89712
PHOTOENGRAVING, LITHOGRAPHING MACHINE OPERATORS	747	92545
PHOTOGRAPHERS	253	34023
PHOTOGRAPHIC PROCESSING MACHINE OPS & TENDERS	764	92908
PHOTOGRAPHIC PROCESS WORKER, PRECISION	680	89914
PHYSICAL SCIENCE TEACHERS, POSTSECONDARY	154	31209
PHYSICAL SCIENTISTS	83	24100
PHYSICAL SCIENTISTS, NEC	88	24199
PHYSICAL THERAPISTS	215	32308
PHYSICAL THERAPY ASSISTANTS & AIDES	438	66017
PHYSICAL, LIFE SCIENCE TECHNICIANS	95	24500
PHYSICAL, LIFE SCIENCE TECHNICIANS, NEC	100	24599
PHYSICIANS AND SURGEONS	205	32102
PHYSICIAN'S ASSISTANTS	224	32511
PHYSICISTS AND ASTRONOMERS	84	24102
PHYSICS TEACHERS, POSTSECONDARY	153	31206
PILE DRIVING OPERATORS	597	87705
PILOTS--SHIP	852	97508
PIPELAYERS	589	87508
PIPELAYING FITTERS	588	87505
PLANT AND SYSTEM OCCUPATIONS	819	95000
PLANT AND SYSTEM OPERATORS, NEC	831	95099
PLAST MOLDING, CASTING MACHINE SETTER	713	91902
PLASTERERS AND STUCCO MASONS	583	87317
PLASTIC MOLDING, CASTING MACHINE OPS	714	91905



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PLATEMAKERS	666	89718
PLUMBERS AND RELATED WORKERS	586	87500
PLUMBERS, PIPEFITTERS, STEAMFITTER	587	87502
PODIATRISTS	208	32111
POLICE AND DETECTIVE SUPERVISORS	395	61005
POLICE DETECTIVES	402	63011
POLICE PATROL OFFICERS	403	63014
POLITICAL SCIENCE TEACHERS, POSTSECONDARY	171	31236
PORTABLE MACHINE CUTTERS	808	93928
POSTAL MAIL CARRIERS	375	57305
POSTAL SERVICE CLERKS	376	57308
POSTMASTERS, MAIL SUPERINTENDENTS	9	15002
POSTSECONDARY TEACHERS	146	31100
POSTSECONDARY TEACHERS, NEC	183	31299
POWER DISTRIBUTORS AND DISPATCHERS	829	95028
POWER PLANT OPS--EX AUXILIARY EQUIPMENT	826	95021
POWER REACTOR OPERATORS	828	95026
POWERHOUSE, RELATED ELECTRICIANS	542	85721
PRESS MACHINE SETTERS--METAL, PLASTIC	696	91305
PRESSERS--DELICATE FABRICS	653	89517
PRESSERS--HAND	805	93921
PRESSING MACH OPS--TEXTILE, GARMENT	760	92728
PRINT PRESS SETTERS, SET UP OPS	737	92510
PRINT PRESS SETTERS, SET-UP OPS NEC	740	92519
PRINT REL SETTERS, SET-UP OPS, NEC	744	92529
PRINT, BINDING, RELATED MACHINE OPS, TENDER	749	92549
PRINTING PRESS MACHINE OPS, TENDER	746	92543
PRINTING WORKERS, NEC--PRECISION	669	89799
PRINTING WORKERS, PRECISION	656	89700
PRINTING, BINDING, RELATED WORKERS	736	92500
PROCUREMENT CLERKS	349	55326
PROD INSPECTORS, TESTERS, & GRADER	500	83005
PROD, CONST, OPER, MATERIAL HANDLING	490	80000
PROD, PLANNING, EXPEDITING CLERKS	381	58008
PRODUCERS, DIRECTORS, ACTORS	264	34056
PRODUCTION OCCUPATIONS, PRECISION	625	89000
PROFESSIONAL, PARAPROF, TECHNICAL	23	20000
PROOFREADERS AND COPY MARKERS	334	53911
PROPERTY AND REAL ESTATE MANAGERS	12	15011
PROTECTIVE SERVICE OCCUPATIONS	398	63000
PROTECTIVE SERVICE WORKERS, NEC	415	63099
PRUNERS	483	79033
PSYCHIATRIC AIDES	437	66014
PSYCHIATRIC TECHNICIANS	242	32931
PSYCHOLOGISTS	122	27108
PSYCHOLOGY TEACHERS, POSTSECONDARY	172	31237
PUBLIC ADMIN CHIEF EXECUTIVES, LEGISLATORS	20	19002
PUBLIC RELATIONS SPECIALISTS, PUBLICITY WRITERS	248	34008
PUMP OPERATORS	882	97953
PUNCH MACHINE SETTERS--METAL, PLASTIC	695	91302

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PURCHASING AGENTS AND BUYERS--FARM PRODUCTS	35	21305
PURCHASING AGENTS--EX WHOLESALE, RETAIL, FARM PRODS	36	21308
PURCHASING AGENTS AND BUYERS	33	21300
PURCHASING MANAGERS	5	13008
RADIATION THERAPISTS	235	32913
RADIO MECHANICS	533	85514
RADIO OPERATORS	269	39008
RADIOLOGIC TECHNOLOGISTS	237	32919
RAIL CAR REPAIRERS	522	85317
RAIL TRANSPORTATION WORKERS	841	97300
RAIL VEHICLE OPERATIVES, NEC	848	97399
RAIL YARD ENGINEERS AND RELATED	844	97308
RAILROAD BRAKE, SIGNAL, SWITCH OPERATORS	847	97317
RAILROAD CONDUCTORS, YARDMASTERS	842	97302
RAILROAD, TRANSIT POLICE, SPECIAL AGENTS	411	63038
RAIL-TRACK LAYING, MAINTENANCE EQUIPMENT OPS	600	87714
REAL ESTATE CLERKS	335	53914
RECEPTIONISTS, INFORMATION CLERKS	343	55305
RECREATION WORKERS	129	27311
RECREATIONAL THERAPISTS	218	32317
REFRACTORY MATERIALS REPAIRERS	513	85126
REFUSE COLLECTORS	902	98705
REGISTERED NURSES	221	32502
REINFORCING METAL WORKERS	582	87314
RELIGIOUS WORKERS	130	27500
RELIGIOUS WORKERS, NEC	133	27599
REPORTERS AND CORRESPONDENTS	249	34011
RESERVATION, TRANS TICKET AGENTS	328	53805
RESIDENTIAL COUNSELORS	127	27307
RESPIRATORY CARE PRACTITIONERS	213	32302
RIGGERS	559	85935
ROASTING, BAKING MACHINE OPERATORS--FOOD	768	92921
ROCK SPLITTERS, QUARRY	613	87908
ROLLING MACH SETTERS--METAL, PLASTIC	699	91314
ROOF BOLTERS	618	87923
ROOFERS	605	87808
ROTARY DRILL OPERATORS--OIL, GAS EXTRACT	614	87911
ROUSTABOUTS	617	87921
SAFETY ENGINEERS--EXCEPT MINING	64	22132
SALES AGENTS, PLACERS--INSURANCE	276	43002
SALES AGENTS--ADVERTISING	283	43023
SALES AGENTS--FINANCIAL SERVICES	280	43014
SALES AGENTS--REAL ESTATE	278	43008
SALES AGENTS--SELECTED BUSINESS SERVICES	281	43017
SALES AGENTS--SERVICE	275	43000
SALES AND RELATED OCCUPATIONS	273	40000
SALES AND RELATED WORKERS, NEC	297	49999
SALES ENGINEERS	286	49002
SALES REPRESENTATIVES, NON-SCIENTIFIC EX RET	288	49008
SALES REPRESENTATIVES, SCIENTIFIC--EX RETAIL	287	49005



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SALES REPRESENTATIVES, SERVICE--NEC	284	43099
SALESPERSONS, RETAIL	289	49011
SALESPERSONS--PARTS	290	49014
SAW MACHINE TOOL SETTERS--METAL, PLASTIC	688	91102
SAWING MACHINE OPERATORS AND TENDERS	733	92308
SAWING MACHINE SETTERS, SET-UP OPERATORS	731	92302
SCANNER OPERATORS	664	89715
SCREEN PRINT MACHINE SETTERS, SET-UP	742	92524
SECRETARIAL, GENERAL OFFICE OCCUPATIONSS	336	55000
SECRETARIES	337	55100
SECRETARIES, GENERAL	340	55108
SECRETARIES, LEGAL	338	55102
SECRETARIES, MEDICAL	339	55105
SELECTED ROAD, RAIL AND RELATED	595	87700
SEPARATING, STILL MACHINE OPS, TENDERS	782	92962
SEPTIC TANK, SEWER PIPE SERVICERS	590	87511
SERVICE OCCUPATIONS	392	60000
SERVICE STATION ATTENDANTS	861	97805
SERVICE UNIT OPERATORS	616	87917
SERVICE WORKERS, NEC	465	69999
SEWERS--HAND	806	93923
SEWING MACHINE OPERATORS--GARMENT	756	92717
SEWING MACHINE OPS--NON-GARMENT	757	92721
SHAMPOOERS	453	68011
SHEAR MACHINE SETTERS--METAL, PLASTIC	697	91308
SHEET METAL DUCT INSTALLERS	604	87805
SHEET METAL WORKERS	637	89132
SHERIFFS AND DEPUTY SHERIFFS	409	63032
SHIP ENGINEERS	856	97521
SHIPFITTERS	633	89121
SHOE AND LEATHER WKRS--PRECISION	651	89511
SHOE SEWING MACHINE OPS, TENDERS	758	92723
SHUTTLE CAR OPERATORS	876	97935
SIGNAL OR TRACK SWITCH MAINTAINERS	532	85511
SLAUGHTERERS AND BUTCHERS	671	89802
SMALL ENGINE SPECIALISTS	526	85328
SOCIAL SCI, RECREATION, RELIGIOUS	118	27000
SOCIAL SCIENCE TEACHERS, POSTSECONDARY	165	31230
SOCIAL SCIENCES TEACHERS, POSTSECONDARY,	173	31239
SOCIAL SCIENTISTS, NEC	123	27199
SOCIAL SCIENCE--INCL URBAN, REGIONAL PLANNERS	119	27100
SOCIAL WORKERS--EX MEDICAL, PSYCHIATRIC	126	27305
SOCIAL WORK TEACHERS, POSTSECONDARY	177	31247
SOCIAL WORKERS--MEDICAL, PSYCHIATRIC	125	27302
SOLDERERS AND BRAZERS	804	93917
SOLDERING, BRAZING MACH OPS, TENDERS	710	91711
SOLDERING, BRAZING MACH SETTERS	709	91708
SPEC MATERL PRINTING MACH SETTERS	741	92522
SPECIAL AGENTS--INSURANCE	39	21505
SPEECH PATHOLOGISTS, AUDIOLOGISTS	217	32314



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SPOTTERS--DRY CLEANING	652	89514
SPRAYERS, APPLICATORS	484	79036
STATEMENT CLERKS	310	53126
STATION INSTALLERS--TELEPHONE	544	85726
STATIONARY ENGINEERS	830	95032
STATISTICAL CLERKS	350	55328
STATISTICIANS	113	25312
STENOGRAPHERS AND/OR COURT REPORTER	342	55302
STEVEDORES--EX EQUIPMENT OPERATORS	901	98702
STOCK CLERKS--SALES FLOOR	292	49021
STOCK CLERKS--STOCKROOM, WAREHOUSE	386	58023
STONE MASONS	579	87305
STRIPPERS	665	89717
STRUCTURAL METAL WORKERS	607	87814
SUBWAY AND STREETCAR OPERATORS	846	97314
SURGICAL TECHNICIANS	241	32928
SURVEYING AND MAPPING SCIENTISTS	72	22311
SURVEYING AND MAPPING TECHNICIANS	80	22521
SWITCHBOARD OPERATORS	368	57102
SYSTEMS ANALYSTS--ELECTRIC DATA PROCESSING	103	25102
TANK CAR AND TRUCK LOADERS	866	97905
TAPERS	572	87111
TAX EXAMINERS, COLLECTORS, REVENUE AGENTS	47	21914
TAX PREPARERS	29	21111
TAXI DRIVERS AND CHAUFFEURS	838	97114
TEACHER AIDES & EDUCATIONAL ASSISTANTS, CLERICAL	332	53905
TEACHER AIDES, PARAPROFESSIONAL	202	31521
TEACHERS AND INSTRUCTORS, NEC	194	31399
TEACHERS, EDUCATORS, LIBRARIANS	145	31000
TEACHERS, KINDERGARTEN	186	31304
TEACHERS, PRESCHOOL	185	31303
TEACHERS--ELEMENTARY SCHOOL	187	31305
TEACHERS--SECONDARY SCHOOL	188	31308
TEACHERS--SPECIAL EDUCATION	189	31311
TEACHERS--VOCATIONAL ED AND TRAINING	190	31314
TECHNICAL ASSISTANTS--LIBRARY	197	31505
TECHNICAL WRITERS	247	34005
TELEGRAPH AND TELETYPE OPERATORS	371	57111
TELEGRAPH, TELETYPE INSTALLERS	531	85508
TELEMARKETERS, SOLICITORS & RELATED	294	49026
TELEPHONE, CABLE TV INSTALLERS	536	85702
TELLERS	302	53102
TEXTILE, APPAREL, FURNISHINGS, NEC--PRECISION	655	89599
TEXTILE BLEACHING, DYEING MACHINE OPERATORS	755	92714
TEXTILE DRAW-OUT MACH OPERATORS, TENDERS	754	92711
TEXTILE MACHINE SETTERS, SET-UP OPERATORS	751	92702
TEXTILE OPERATORS, TENDERS--WIND, TWIST, KNIT	752	92705
TEXTILE, APPAREL, FURNISHINGS, PRECISION	647	89500
TEXTILE, RELATED SETTERS, OPERATORS	750	92700
THERAPISTS	212	32300

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
THERAPISTS, NEC	219	32399
TIMBER CUTTING AND LOGGING	469	73000
TIMBER CUTTING AND RELATED, NEC	474	73099
TIRE BUILDING MACHINE OPERATORS	765	92911
TIRE REPAIRERS AND CHANGERS	564	85953
TITLE EXAMINERS AND ABSTRACTORS	143	28311
TITLE SEARCHERS	142	28308
TOOL AND DIE MAKERS	627	89102
TOOL GRINDERS, FILERS, SHARPENERS	630	89111
TRAFFIC TECHNICIANS	268	39005
TRAFFIC, SHIPPING, RECEIVING CLERKS	388	58028
TRANS AND RELATED WORKERS, NEC	863	97899
TRANS ATTENDANTS--EX FLIGHT	459	68028
TRANS, MATERIAL MOVING EQUIPMENT OPS, NEC	885	97999
TRANS, MATERIAL MOVING MACHINE OPS	832	97000
TRANSIT CLERKS	304	53108
TRANSPORTATION AGENTS	382	58011
TRANSPORTATION INSPECTORS	501	83008
TRAVEL AGENTS	282	43021
TRAVEL CLERKS	327	53802
TRUCK DRIVERS, HEAVY	834	97102
TRUCK DRIVERS, LIGHT	835	97105
TYPESETTING, COMPOSING MACHINE OPS	745	92541
TYPISTS, INCLUDING WORD PROCESSING	344	55307
U.S. MARSHALLS	407	63026
UNDERGROUND MINE MACHINE MECHANICS	509	85117
UNDERWRITERS	26	21102
UPHOLSTERERS	650	89508
URBAN AND REGIONAL PLANNERS	121	27105
USHERS, LOBBY ATTENDANTS	456	68021
VEHICLE WASHERS, EQUIPMENT CLEANERS	906	98905
VETERINARY ASSISTANTS	486	79806
VETERINARY TECHNICIANS	243	32951
VETS AND VETERINARY INSPECTORS	210	32114
VOCATIONAL & EDUCATIONAL COUNSELOR	200	31514
WAITERS AND WAITRESSES	419	65008
WARDROBE ATTENDANTS	460	68032
WATCH ASSEMBLERS, RELATED--PRECISION	796	93117
WATCHMAKERS	553	85917
WATER TRANSPORTATION WORKERS	849	97500
WATER TREATMENT PLANT OPERATORS	820	95002
WEIGHERS, MEASURERS--RECORDKEEPING	384	58017
WELDERS AND CUTTERS	803	93914
WELDING MACH OPERATORS AND TENDERS	708	91705
WELDING MACH SETTERS, SET-UP OPS	707	91702
WELFARE ELIGIBILITY WORKERS, INTERVIEWERS	319	53502
WELL HEAD PUMPERS	868	97911
WHOLESALE AND RETAIL BUYERS--EX FARM PRODS	34	21302
WOOD MACHINISTS	643	89308
WOODWORK MACH OPS, TNDRS--EX SAWING	735	92314

## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
WOODWORK MACH SETTERS--EX SAWING	734	92311
WOODWORKERS, NEC--PRECISION	646	89399
WOODWORKERS, PRECISION	640	89300
WOODWORKING MACHINE SETTERS, OPS	730	92300
WORKERS, PRECISION--NEC	685	89999
WRITERS AND EDITORS	246	34002
WRITERS, ARTISTS, ENTER, ATHLETES	245	34000



# Standard Industrial Classification Manual

The Standard Industrial Classification (SIC) is a nationally standardized system for identifying and coding business establishments according to their industrial activity. An "establishment" is an economic unit, generally located at a single physical location, where business is conducted or where services or industrial operations are performed. The Standard Industrial Classification (SIC) Manual is the reference guide used to accurately apply and/or understand the classification coding system.

The SIC Manual's format separates industries into ten broad divisions, such as manufacturing and retail trade. Within those broad groupings are more specific two-digit codes, as well as more detailed three-digit and four-digit codes, that identify specific industries. Brief narratives describe the kinds of establishments contained in each classification category.

## Suggestions for Users

The SIC Manual facilitates the collection, analysis and publication of information about business establishments. This standardized system is used throughout the United States to promote uniformity in the publications of private and governmental agencies. The Employment Development Department's field office personnel use the manual to assign SIC codes to employers

to aid in providing services. Trade associations and private industry use the manual in reference books, such as the California Manufacturers Register.

The manual can help one to understand the composite industries summarized in publications. However, all public sector workers are usually grouped together into a category called "government", which includes federal, state and local government, and state and local education.

The U.S. Department of Labor, Occupational Safety and Health Administration provides SIC information on the Internet at <http://www.osha.gov/oshstats/sicser.html>

The SIC Manual may be purchased from U.S. Government Bookstores, Bureau of Labor Statistics, or the Superintendent of Documents in Los Angeles or San Francisco. For information about purchasing this manual, contact:

U.S. Government Bookstore  
Marathon Plaza, Room 141-S  
303 2nd Street  
San Francisco, CA 94107  
Phone - (415) 512-2770  
Fax - (415) 512-2776  
<http://access.gpo.gov>

# North American Industry Classification System

The United States has a new industry classification system. The North American Industry Classification System (NAICS) will soon replace the U.S. Standard Industrial Classification (SIC) system.

NAICS is the first-ever North American Industry classification system. The system was developed by the U.S., Canada, and Mexico to provide comparable statistics across the three countries. For the first time, government and business analysts will be able to compare directly industrial production statistics collected and published in the three North American Free Trade Agreement countries.

NAICS will reshape the way we view our changing economy. It is a unique, all-new system for classifying business establishments. It is the first economic classification system to be constructed based on a single economic concept. Economic units that use like processes to produce goods or services are grouped together. This "production-oriented" system means that statistical agencies in the United States will produce data that can be used for:

- measuring productivity, unit labor costs, and the capital intensity of production;
- constructing input-output relationships and;
- estimating employment-output relationships and other such statistics that require that inputs and outputs be used together.

NAICS responds to increasing and serious criticism about the SIC. NAICS reflects the structure of today's economy in the United States, Canada, and Mexico, including the emergence and growth of the service sector and new and advanced technologies. It is a flexible system that allows each country to recognize important industries below the level at which comparable data will be shown for all three countries.

The 1997 Economic Census will provide the first official NAICS-based statistics. Advance statistics will appear in early 1999. A report in 2000 will show relationships between NAICS and SIC industries.

Implementation by Federal agencies will be in phases. Some agency programs will convert to NAICS as early as 1999, others as late as 2004.

## How is NAICS better?

NAICS will make economic statistics more useful. It will improve basic benchmark and current performance statistics, like manufacturers' shipments, retail sales, and service receipts. It will improve statistics by providing an all-new industry classification system that is more:

*Relevant.* NAICS identifies new industries, revises concepts, and reorganizes classifications so that industry-classified statistics highlight businesses that contribute most to our economy.



*Consistent.* NAICS classifies businesses into industries based on one principle instead of several; the principle that businesses using similar production processes are classified together.

*Comparable.* NAICS provides first-ever comparability in North American industry classifications and economic statistics.

*Flexible.* NAICS classifications will be updated regularly to keep pace with changes in our economy; every 5 years, all three North American countries will review NAICS and make needed revisions.

### **How NAICS will affect the economic data you use.**

Every sector of the economy has been restructured and redefined:

- A new *Information* sector combines communications, publishing, motion picture and sound recording, and online services, recognizing our information-based economy.
- *Manufacturing* is restructured to recognize new high-tech industries. A new subsector is devoted to computers and electronics, including reproduction of software.
- *Retail Trade* is redefined. In addition, eating and drinking places are transferred to a new *Accommodation and Food Services* sector.
- The difference between *Retail* and *Wholesale* is now based on how each store conducts business. For example, many computer stores are reclassified from wholesale to retail.
- Nine new service sectors and 250 new service industries are recognized.

### **All new numbering system**

Numeric codes for each NAICS classification are completely different from those of the SIC. The new numbering system underscores the "clean slate" approach taken in NAICS and allows its classification changes to be fully developed. The new system provides five levels of classification (up from four in the SIC), detailed codes that have a maximum of six-digits (up from four in the SIC) and detailed classifications called "U.S. Industry" (instead of "Industry" in the SIC). These changes require new numbers, even for industries that continue without change. For example, both NAICS and SIC include the detailed industry, "Passenger car rental." However, in NAICS, it has code number 532111, and in the SIC, it was code number 7514. While all NAICS numeric codes are new, like the SIC, they are organized into multi-level hierarchical classification groups that build up from the detailed industry level. The additional level of classification and expanded number of digits permit NAICS to account for the increased number of classifications, provide flexibility in structuring industry classification groups, and allow for country-based variations in classification detail.

A variety of information resources are available to help users of business statistics understand and use NAICS. Additional information, answers to frequently asked questions, and updated agency implementation plans are available at the Census Bureau's Internet site:

**[www.census.gov/naics](http://www.census.gov/naics)**

Answers to specific classification and data program inquiries may also be addressed to industry experts at:

**Phone: 1-888-75NAICS**

**E-mail: [naics@census.gov](mailto:naics@census.gov)**



# Projection Methods And Economic Assumptions

The employment projection process consists of two phases – first, projections for employment by industry are made using both historical data and current information about the economy. Next, the industry projections become a primary data source used to project changes in occupational employment.

Changes in occupational employment over time result from two principal sources: industry growth and technological change. In developing occupational employment projections, both of these components must be addressed.

The following is a discussion of how industry and occupational projections are developed, beginning with a description of data sources and followed by a description of the steps involved.

## Principal Data Sources

### Employment by Industry

The source of the official historical industry employment series used for industry projections for the state and each county is the Current Employment Statistics (CES) program. This is a Federal/State co-operative program that compiles monthly estimates of industry employment groupings for the state and each county. These monthly industry employment estimates are based primarily on employer sample surveys.

A second source used in industry forecasts is the Covered Employment and Wage Data, or ES-202 program. Essentially, this program extracts employment and wage information from quarterly tax returns filed by each California employer covered by unemployment insurance. Each employer has been assigned a specific industry and county code and these data are compiled to provide the 'actual' industry employment levels for each industry and county. These data are then used for benchmarking the monthly industry employment

estimates made in the CES program. This is also a Federal/State co-operative program.

### Employment by Occupation

Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is an annual mail survey of non-farm employers conducted by the Employment Development Department in cooperation with the U.S. Bureau of Labor Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 800 occupations at the three-digit SIC level of detail. The survey samples approximately 110,000 business establishments over a three year period.

## The Process

### Industry Projections

Industry projections are first developed at aggregated levels (industry groupings) for the state and each county based on the Current Employment Statistics employment series.

Second, these aggregated industry projections are then broken down into more industry specific detail using the ES-202 data. The industry specific projections then become the primary source from which occupational projections are developed by using industry staffing patterns data. The following steps outline the process:

- Approximately every two years, industry employment projections are produced for the nation by the Bureau of Labor Statistics.
- Industry projections are then developed for the State using input from the national forecast and the historical industry employment series for the State.

- County industry projections are then developed using input from the state forecast and the historical employment series for each county.
- State projections are developed for ten years from the base period and county projections are developed for seven years from the base period.
- The State forecasts are reviewed by Labor Market Information Division (LMID) industry analysts, California's Department of Finance, and academics.
- County forecasts are reviewed by local area consultants who provide up to date information regarding recent developments in each county that would not normally be accounted for in the model.

### Occupational Projections

The distribution of industry employment by occupation is performed in three steps.

- OES survey responses are summarized by industry and matched with the appropriate SIC in the area. (In cases where local OES responses are not available, either state-wide responses or another area's responses are substituted.)
- The survey data are adjusted to total to the annual average employment level for each industry. This results in estimates of employment by occupation within the three-digit SICs for the base year.
- Finally, base year staffing patterns are adjusted to account for projected shifts in the occupational distributions due to technological changes. These projected changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by three-digit SIC for the projected year. Projected year staffing patterns are applied to the industry employment projections

to produce occupational employment projections within three-digit SICs. Data by occupation are then summed to get the occupational estimates. The difference between the base year occupation estimates and the projected year projections represents the job growth resulting from industry growth and from technological change. (Change factors do not try to predict regulatory changes.)

Demand for workers is also created by openings that result when workers leave their jobs to enter other occupations, retire, or leave the labor force for other reasons. These openings, termed *separations*, are important because, in most occupations, they exceed job openings resulting from employment growth. Even occupations that are projected to decline usually provide job openings due to separations. Separations are developed from separation rates compiled on a national basis every two years by the Bureau Of Labor Statistics.

### **Economic Assumptions**

The industry and occupational projections in this report are based on the following assumptions:

- ✓ The institutional framework of the U.S. economy will not change radically.
- ✓ Recent technological and scientific trends will continue.
- ✓ The long-term employment patterns will continue in most industries.
- ✓ Federal, state, and local government agencies will continue to operate under budgetary constraints.
- ✓ No major events, such as war, will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- ✓ Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- ✓ Attitudes toward work, education, income, and leisure will not change significantly.

# *Projections & Planning Information*

## **Module E:**

# **Wages**





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# Occupational Employment Statistics Wage Survey

The Occupational Employment Statistics (OES) survey is an annual mail survey measuring occupational employment and occupational wage rates for wage and salary workers in nonfarm establishments by industry. The survey samples approximately 37,000 establishments per year, taking 3 years to fully collect the sample of 113,000 establishments in California.

The 2000 OES survey is the second year to use the new Standard Occupational Classification (SOC) system to identify occupational categories. These survey samples are based only on two years of data collected in the 1999 and 2000 survey. Surveys prior to 1999 used the Occupational Employment Statistics (OES) classification system. Of the nearly 770 SOC occupations, 374 are a direct match with the OES classification system definitions. The rest are newly defined SOC occupations. The SOC structure and definitions can be found at the Bureau of Labor Statistics (BLS) SOC website at [www.bls.gov](http://www.bls.gov).

The wage data for all occupations have been updated to the third quarter of 2001 by applying the Employment Cost Index of the 2000 SOC wage database. The occupational employment estimates are for 2000. A more complete set of technical notes for the 2000 OES survey is available at the BLS website.

## 'Employment' Definition

The OES survey defines employment as the number of workers who can be classified as full-time or part-time employees; workers on paid vacations or other types of leave; workers on unpaid or short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station, regardless of whether that unit prepares their paycheck. The survey excludes the self-employed, owners/partners of unincorporated firms, and unpaid family workers. Employees are reported in the occupation in which they are working, not necessarily for which they were trained.

## Business Establishment Description

The OES survey uses the Standard Industrial Classification (SIC) system to classify all an economic unit which processes goods or provides services, such as a factory or store. The establishment is generally at a single physical location and is engaged primarily in one type of economic activity.

The scope of the survey includes establishments in SIC codes 07, 10, 12 to 17, 20 to 42, 44 to 65, 67, 70, 72, 73, 75, 76, 78 to 84, 86, 87, and 89 covering agricultural services; mining; construction; manufacturing; transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; services; and government.

## Source of Sample Selection

The California Unemployment Insurance (UI) file provided the universe from which the OES survey draws its sample. The employment benchmark was obtained from reports submitted by employers to the UI program. In some nonmanufacturing industries, supplemental sources are used for establishments not reporting to the UI program.

The OES survey frame is stratified by area, industry and size class. Size classes are defined as follows:

<u>Size Class</u>	<u>Number of Employees</u>
1	1 to 4
2	5 to 9
3	10 to 19
4	20 to 49
5	50 to 99
6	100 to 249
7	250 and above

UI reporting units with 250 or more employees are sampled with certainty across a 3-year period. Generally, one-third of the certainty units are sampled each year in each state. There are some states that sample more than one-third of their certainty units during one survey year.

## Terms and Concepts

**Employment** represents the estimate of total wage and salary employment in an occupation across the industries in which it was surveyed. The OES survey form contains between 50 and 225 SOC occupations selected on the basis of the industry classification and size of the sampled establishments. To reduce paperwork and respondent burden, no survey form contains every SOC occupation. Thus, data for specific occupations are collected from establishments within industries that are the predominant employers of labor in those occupations.

**Wages** for the OES survey are straight-time gross pay, exclusive of premium pay. Included are base rate, cost-of-living allowances, guaranteed pay, hazardous duty pay, incentive pay including commissions and production bonuses, tips, and on-call pay. Excluded are back pay, jury duty pay, overtime pay, severance pay, shift differentials, non-production bonuses, employer cost of supplementary benefits, and tuition reimbursements.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation per each wage range. The wage intervals are as follows:

Interval	Hourly Wage	Annual Wage
A	Under \$6.75	Under \$14,040
B	\$6.75 to 8.49	\$14,040 to 17,679
C	\$8.50 to 10.74	\$17,680 to 22,359
D	\$10.75 to 13.49	\$22,360 to 28,079
E	\$13.50 to 16.99	\$28,080 to 35,359
F	\$17.00 to 21.49	\$35,360 to 44,719
G	\$21.50 to 27.24	\$44,720 to 56,679
H	\$27.25 to 34.49	\$56,680 to 71,759
I	\$34.50 to 43.74	\$71,760 to 90,999
J	\$43.75 to 55.49	\$91,000 to 115,439
K	\$55.50 to 69.99	\$115,440 to 145,599
L	\$70.00 and over	\$145,600 and over

Wages are calculated using wage data from establishments in the industries that are the predominant employers of an occupation. Industries that do not typically employ workers in a given occupation are not included in the calculation of the mean and median wage.

**Mean Hourly Wage** is the estimated total wages for an occupation divided by its weighted survey employment. When the wages for an occupation are concentrated in the upper wage interval, it is not possible to calculate a reliable mean. In those instances, both the mean hourly wage and the mean annual wage are replaced by a "(3)" and the user is referred to the appropriate footnote. There are a small number of occupations where only an annual wage figure is provided; the workers in these occupations are generally paid on an annual basis, and their annual wage has been directly calculated from the reported survey data. Occupations that typically have a work-year of less than 2,080 hours include musical and entertainment occupations, aircraft pilots, flight attendants, and teachers. These occupations are identified in the data tables with "(2)" in the hourly wage cells.

**Median Hourly Wage** is the estimated 50th percentile of the distribution of wages; 50 percent of workers in an occupation earn wages below the median wage, and 50 percent earn wages above the median wage.

**Entry-Level Hourly Wage** is the mean of the first third of the wage distribution. This calculation is provided as a proxy for an entry-level wage.

**First Quartile Wage** is the estimated 25th percentile of the distribution of wages; 25 percent of workers in an occupation earn wages below the first quartile wage, and 75 percent earn wages above the first quartile wage.

**Third Quartile Wage** is the estimated 75th percentile of the distribution of wages; 75 percent of workers in an occupation earn wages below the third quartile wage, and 25 percent earn wages above the third quartile wage.

**Metropolitan Area** The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MAs are defined around two or more nuclei. The MAs are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by

the Interagency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MAs nationwide.

***Metropolitan Statistical Area (MSA)*** A MSA comprises one or more central counties. A MSA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. The title of a MSA contains the name of its largest city and up to two additional city names, provided that the additional places meet specified levels of population, employment and commuting. Generally a city of 250,000 or more is in the title, regardless of other criteria.

***Primary Metropolitan Statistical Area (PMSA)*** The criteria that designates and defines a MSA also designates and defines a PMSA. If an area that qualifies as a MA has more than one million persons, primary metropolitan statistical areas (PMSAs) may be defined within it. PMSAs consist of a large urbanized county or cluster of counties that demonstrate very strong internal economic and social links, in addition to close ties to other portions of the larger area. The title of a PMSA may contain up to three place names, or up to three county names, sequenced in order of population.

***Consolidated Metropolitan Statistical Area (CMSA)*** A CMSA consists of two or more Primary Metropolitan Statistical Areas (PMSAs).





# Occupational Employment Statistics (OES) Survey Results

## Stockton - Lodi MSA

### San Joaquin County

These survey data are from the 2001 Occupational Employment Statistics (OES) survey. The wages have all been updated to the third quarter of 2002 by applying the US Department of Labor's Employment Cost Index to the 2001 wages. Occupations are classified using the Standard Occupational Classification (SOC) codes. For details of the methodology, see the Overview of the OES Survey at [http://www.calmis.ca.gov/file/occup\\$/oes\\$.htm](http://www.calmis.ca.gov/file/occup$/oes$.htm)

(Sorted by Occupational Title)

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-2011	Accountants and Auditors	\$18.13	\$27.83	\$19.69	\$23.82	\$30.40
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	\$46.60	\$52.72	\$47.81	\$52.91	\$59.99
11-3011	Administrative Services Managers	\$16.77	\$27.52	\$18.64	\$24.42	\$32.53
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	\$19.51	\$28.89	\$22.21	\$28.65	\$33.38
11-2011	Advertising and Promotions Managers	\$17.79	\$30.45	\$20.57	\$25.54	\$35.44
41-3011	Advertising Sales Agents	\$10.88	\$20.22	\$12.07	\$16.01	\$23.19
19-4011	Agricultural and Food Science Technicians	\$9.99	\$14.58	\$10.80	\$13.50	\$18.30
19-1010	Agricultural and Food Scientists	\$18.40	\$24.72	\$19.34	\$22.41	\$27.47
45-2091	Agricultural Equipment Operators	\$9.00	\$10.22	\$9.18	\$9.96	\$10.74
45-2011	Agricultural Inspectors	\$10.04	\$15.83	\$11.16	\$14.66	\$19.66
49-3011	Aircraft Mechanics and Service Technicians	\$11.16	\$16.59	\$12.60	\$16.38	\$20.55
53-2011	Airline Pilots, Copilots, and Flight Engineers	(2)	(2)	(2)	(2)	(2)
27-1099	All Other Art and Design Workers	\$13.35	\$18.52	\$15.07	\$19.01	\$21.54
37-9099	All Other Building and Grounds Cleaning and Maintenance Workers	\$8.78	\$13.50	\$9.90	\$12.77	\$17.13

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-3099	All Other Drafters, Engineering, and Mapping Technicians	\$13.76	\$18.85	\$15.22	\$18.62	\$22.54
49-2099	All Other Electrical and Electronic Equipment Mechanics, Installers, and Repairers	\$11.78	\$16.31	\$13.25	\$16.24	\$18.16
43-4999	All Other Financial, Information, and Record Clerks	\$10.23	\$15.31	\$11.48	\$14.74	\$18.65
51-3099	All Other Food Processing Workers	\$12.37	\$16.58	\$14.29	\$17.17	\$20.02
29-9199	All Other Health Professionals and Technicians	\$10.16	\$15.92	\$11.17	\$15.06	\$19.75
23-9099	All Other Legal and Related Workers	\$11.91	\$18.48	\$13.13	\$18.20	\$21.62
43-5199	All Other Material Recording, Scheduling, Dispatching, and Distributing Workers	\$10.14	\$14.05	\$10.38	\$11.53	\$17.14
43-9999	All Other Secretaries, Administrative Assistants, and Other Office Support	\$8.05	\$11.84	\$8.69	\$11.35	\$14.52
39-3091	Amusement and Recreation Attendants	\$6.75*	\$7.68	\$6.75*	\$7.07	\$8.42
33-9011	Animal Control Workers	\$11.32	\$13.69	\$11.93	\$13.80	\$15.87
17-1011	Architects, Except Landscape and Naval	\$15.51	\$26.46	\$16.49	\$25.57	\$33.49
17-3011	Architectural and Civil Drafters	\$11.62	\$19.20	\$13.12	\$17.44	\$24.44
17-0000	Architecture and Engineering Occupations	\$15.47	\$25.28	\$19.33	\$25.59	\$31.84
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	\$9.34	\$17.09	\$10.90	\$16.04	\$21.40
51-2099	Assemblers and Fabricators, All Other	\$7.30	\$8.83	\$7.46	\$8.27	\$9.61
27-4011	Audio and Video Equipment Technicians	\$9.87	\$19.09	\$11.46	\$17.18	\$27.01
49-3021	Automotive Body and Related Repairers	\$10.27	\$16.97	\$11.96	\$17.09	\$21.18
49-3022	Automotive Glass Installers and Repairers	\$11.21	\$18.13	\$11.75	\$18.27	\$20.79
49-3023	Automotive Service Technicians and Mechanics	\$10.61	\$16.24	\$12.08	\$15.65	\$20.44



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-3011	Bakers	\$9.37	\$14.97	\$10.86	\$13.59	\$20.32
39-5011	Barbers	\$6.75*	\$11.20	\$6.75*	\$11.65	\$15.49
35-3011	Bartenders	\$6.75*	\$7.39	\$6.75*	\$7.11	\$8.32
43-3011	Bill and Account Collectors	\$9.83	\$13.10	\$10.39	\$12.15	\$15.57
43-3021	Billing and Posting Clerks and Machine Operators	\$9.52	\$12.64	\$10.39	\$12.26	\$14.35
51-5011	Bindery Workers	\$6.75*	\$9.97	\$7.00	\$9.52	\$11.53
19-4021	Biological Technicians	\$12.22	\$15.62	\$12.25	\$13.52	\$18.90
43-3031	Bookkeeping, Accounting, and Auditing Clerks	\$10.15	\$14.16	\$11.35	\$13.92	\$16.59
47-2021	Brickmasons and Blockmasons	\$16.58	\$20.14	\$18.03	\$20.15	\$23.28
43-4011	Brokerage Clerks	\$13.22	\$18.98	\$14.33	\$18.09	\$22.76
13-2031	Budget Analysts	\$18.14	\$27.06	\$19.63	\$25.29	\$34.30
37-0000	Building and Grounds Cleaning and Maintenance Occupations	\$6.92	\$10.50	\$7.35	\$9.15	\$12.78
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	\$11.22	\$16.78	\$12.90	\$17.03	\$20.50
53-3022	Bus Drivers, School	\$8.80	\$12.29	\$9.48	\$11.96	\$14.63
13-0000	Business and Financial Operations Occupations	\$14.66	\$24.09	\$17.40	\$22.55	\$28.22
13-1199	Business Operations Specialists, All Other	\$15.81	\$23.67	\$18.49	\$23.61	\$27.78
51-3021	Butchers and Meat Cutters	\$9.07	\$13.53	\$9.66	\$12.03	\$18.46
51-7011	Cabinetmakers and Bench Carpenters	\$8.63	\$13.58	\$9.67	\$11.68	\$15.54
29-2031	Cardiovascular Technologists and Technicians	\$13.15	\$24.27	\$15.00	\$21.23	\$37.72
43-5011	Cargo and Freight Agents	\$13.54	\$20.68	\$16.34	\$19.89	\$25.20

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
47-2031	Carpenters	\$15.63	\$20.92	\$17.39	\$20.62	\$24.56
47-2041	Carpet Installers	\$11.28	\$16.54	\$12.52	\$15.43	\$20.69
41-2011	Cashiers	\$6.75*	\$8.80	\$6.75*	\$7.80	\$9.51
47-2051	Cement Masons and Concrete Finishers	\$12.86	\$19.29	\$14.60	\$19.53	\$24.22
51-9191	Cementing and Gluing Machine Operators and Tenders	\$9.68	\$13.21	\$10.70	\$14.13	\$15.72
35-1011	Chefs and Head Cooks	\$10.75	\$15.95	\$12.69	\$15.96	\$19.11
17-2041	Chemical Engineers	\$28.69	\$33.11	\$29.57	\$32.68	\$35.89
51-9011	Chemical Equipment Operators and Tenders	\$13.44	\$19.24	\$15.58	\$20.09	\$23.66
11-1011	Chief Executives	\$34.99	(3)	\$41.10	\$56.25	>\$70.00
39-9011	Child Care Workers	\$7.13	\$8.94	\$7.49	\$8.53	\$10.38
21-1021	Child, Family, and School Social Workers	\$14.89	\$22.80	\$17.41	\$22.54	\$29.12
17-3022	Civil Engineering Technicians	\$13.48	\$19.36	\$17.52	\$20.18	\$23.40
17-2051	Civil Engineers	\$22.99	\$30.12	\$25.44	\$30.39	\$34.59
13-1031	Claims Adjusters, Examiners, and Investigators	\$13.92	\$22.86	\$15.86	\$21.46	\$27.89
53-7061	Cleaners of Vehicles and Equipment	\$6.75*	\$7.96	\$6.75*	\$7.31	\$8.51
21-2011	Clergy	\$7.03	\$17.24	\$7.40	\$18.54	\$23.05
19-3031	Clinical, Counseling, and School Psychologists	\$23.28	\$29.57	\$26.38	\$30.70	\$33.74
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	\$9.24	\$11.80	\$9.71	\$11.19	\$13.89
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	\$10.23	\$11.17	\$9.88	\$10.60	\$11.32
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	\$6.75*	\$7.43	\$6.75*	\$7.37	\$8.27

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
27-1021	Commercial and Industrial Designers	\$15.86	\$20.03	\$17.13	\$19.65	\$21.84
43-2099	Communications Equipment Operators, All Other	\$17.44	\$18.99	\$17.99	\$19.37	\$20.76
21-0000	Community and Social Services Occupations	\$10.98	\$19.11	\$13.01	\$17.38	\$25.26
13-1072	Compensation, Benefits, and Job Analysis Specialists	\$17.00	\$24.47	\$19.20	\$23.69	\$28.56
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportati	\$14.71	\$21.31	\$15.44	\$17.97	\$24.28
11-3021	Computer and Information Systems Managers	\$23.07	\$35.28	\$26.46	\$35.87	\$42.40
15-0000	Computer and Mathematical Occupations	\$13.87	\$22.48	\$16.29	\$21.73	\$27.48
43-9011	Computer Operators	\$11.22	\$15.48	\$12.39	\$15.34	\$18.44
15-1021	Computer Programmers	\$15.54	\$24.10	\$18.25	\$23.71	\$29.29
15-1031	Computer Software Engineers, Applications	\$20.20	\$28.52	\$22.43	\$26.54	\$33.37
15-1032	Computer Software Engineers, Systems Software	\$18.83	\$27.31	\$23.49	\$27.85	\$32.44
15-1099	Computer Specialists, All Other	\$8.51	\$19.04	\$10.99	\$17.27	\$28.49
15-1041	Computer Support Specialists	\$13.30	\$18.99	\$15.12	\$18.07	\$23.22
15-1051	Computer Systems Analysts	\$19.39	\$27.84	\$21.80	\$27.12	\$32.96
49-2011	Computer, Automated Teller, and Office Machine Repairers	\$12.34	\$16.07	\$13.34	\$15.53	\$17.96
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	\$12.60	\$15.88	\$14.34	\$16.25	\$18.13
47-4011	Construction and Building Inspectors	\$14.57	\$21.23	\$17.72	\$23.03	\$26.13
47-0000	Construction and Extraction Occupations	\$11.87	\$18.95	\$13.71	\$18.14	\$23.59
47-2061	Construction Laborers	\$9.86	\$16.39	\$10.88	\$15.14	\$22.27
11-9021	Construction Managers	\$24.61	\$33.80	\$28.03	\$33.31	\$38.21



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
53-7011	Conveyor Operators and Tenders	\$9.35	\$16.28	\$11.94	\$15.50	\$22.68
35-2011	Cooks, Fast Food	\$6.75*	\$7.03	\$6.75*	\$7.15	\$7.95
35-2012	Cooks, Institution and Cafeteria	\$7.67	\$11.63	\$8.11	\$10.51	\$14.83
35-2014	Cooks, Restaurant	\$6.87	\$9.31	\$7.42	\$9.29	\$11.26
35-2015	Cooks, Short Order	\$8.03	\$9.38	\$8.52	\$9.55	\$10.44
43-4021	Correspondence Clerks	\$7.72	\$13.04	\$9.01	\$12.57	\$17.52
13-1051	Cost Estimators	\$16.99	\$25.29	\$20.10	\$24.94	\$29.65
41-2021	Counter and Rental Clerks	\$6.75*	\$9.87	\$7.16	\$8.49	\$10.50
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	\$6.86	\$9.18	\$7.27	\$8.47	\$10.91
43-5021	Couriers and Messengers	\$7.88	\$10.99	\$8.42	\$9.82	\$11.52
23-2091	Court Reporters	\$23.70	\$27.41	\$25.08	\$27.53	\$29.89
53-7021	Crane and Tower Operators	\$12.00	\$20.60	\$14.13	\$18.00	\$29.49
13-2041	Credit Analysts	\$16.38	\$27.22	\$18.09	\$22.96	\$36.73
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	\$8.65	\$16.32	\$9.94	\$13.12	\$24.24
43-4051	Customer Service Representatives	\$9.63	\$15.18	\$10.90	\$13.80	\$18.99
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	\$8.70	\$12.49	\$9.33	\$12.26	\$15.48
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	\$8.63	\$11.78	\$9.28	\$11.29	\$13.63
43-9021	Data Entry Keyers	\$8.12	\$10.95	\$8.88	\$10.60	\$13.09
15-1061	Database Administrators	\$13.52	\$23.88	\$16.44	\$22.19	\$28.81

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
41-9011	Demonstrators and Product Promoters	\$9.59	\$11.67	\$10.01	\$11.44	\$13.19
31-9091	Dental Assistants	\$8.66	\$11.61	\$9.73	\$11.12	\$13.92
29-2021	Dental Hygienists	\$12.88	\$29.16	\$13.56	\$29.39	\$41.56
29-1020	Dentists	\$41.35	(3)	\$44.48	>\$70.00	>\$70.00
33-3021	Detectives and Criminal Investigators	\$20.97	\$27.98	\$23.72	\$29.35	\$33.31
29-2032	Diagnostic Medical Sonographers	\$19.59	\$24.37	\$20.63	\$23.66	\$27.41
29-2051	Dietetic Technicians	\$9.36	\$12.07	\$9.84	\$11.24	\$14.07
29-1031	Dietitians and Nutritionists	\$22.01	\$24.40	\$22.70	\$24.53	\$26.42
35-9021	Dishwashers	\$6.75*	\$6.88	\$6.75*	\$6.80	\$7.63
43-5032	Dispatchers, Except Police, Fire, and Ambulance	\$10.32	\$17.09	\$11.99	\$15.98	\$21.47
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	\$6.75*	\$8.30	\$6.75*	\$7.35	\$8.72
53-3031	Driver/Sales Workers	\$6.77	\$11.34	\$7.20	\$8.76	\$15.68
47-2081	Drywall and Ceiling Tile Installers	\$13.81	\$18.85	\$15.26	\$19.38	\$21.90
27-3041	Editors	\$14.01	\$20.21	\$15.20	\$19.94	\$24.76
11-9031	Education Administrators, Preschool and Child Care Center/Program	\$14.02	\$20.52	\$15.22	\$20.56	\$24.11
25-0000	Education, Training, and Library Occupations	\$10.13	\$19.16	\$11.67	\$18.30	\$25.62
21-1012	Educational, Vocational, and School Counselors	\$13.24	\$24.27	\$16.25	\$25.73	\$32.48
49-2092	Electric Motor, Power Tool, and Related Repairers	\$15.23	\$20.81	\$17.10	\$20.06	\$22.85
17-3023	Electrical and Electronic Engineering Technicians	\$16.20	\$20.89	\$17.35	\$20.53	\$24.51
51-2022	Electrical and Electronic Equipment Assemblers	\$7.27	\$10.96	\$7.50	\$9.47	\$12.48

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-3012	Electrical and Electronics Drafters	\$12.67	\$22.51	\$13.51	\$20.79	\$31.72
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	\$17.56	\$22.66	\$19.67	\$23.11	\$25.96
17-2071	Electrical Engineers	\$24.55	\$30.99	\$27.89	\$31.42	\$35.01
47-2111	Electricians	\$14.84	\$22.26	\$16.32	\$21.29	\$27.24
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	\$12.89	\$16.76	\$14.19	\$16.92	\$20.05
17-2072	Electronics Engineers, Except Computer	\$24.27	\$27.90	\$23.90	\$25.99	\$29.57
25-2021	Elementary School Teachers, Except Special Education	(2)	(2)	(2)	(2)	(2)
13-1061	Emergency Management Specialists	\$21.08	\$31.23	\$21.84	\$26.52	\$37.15
29-2041	Emergency Medical Technicians and Paramedics	\$7.98	\$11.37	\$8.61	\$10.21	\$12.79
13-1071	Employment, Recruitment, and Placement Specialists	\$13.76	\$20.41	\$15.34	\$19.03	\$22.24
11-9041	Engineering Managers	\$27.62	\$37.55	\$31.10	\$37.14	\$44.47
17-2199	Engineers, All Other	\$23.79	\$30.99	\$27.69	\$31.77	\$35.87
17-2081	Environmental Engineers	\$17.65	\$26.13	\$19.87	\$24.77	\$31.61
19-4091	Environmental Science and Protection Technicians, Including Health	\$10.12	\$12.24	\$10.71	\$12.10	\$13.35
43-6011	Executive Secretaries and Administrative Assistants	\$11.90	\$17.37	\$13.27	\$16.10	\$19.78
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	\$8.16	\$11.15	\$8.64	\$10.44	\$13.80
51-6092	Fabric and Apparel Patternmakers	\$7.15	\$11.82	\$8.75	\$10.14	\$16.09
29-1062	Family and General Practitioners	\$25.45	(3)	\$27.84	\$58.46	>\$70.00
49-3041	Farm Equipment Mechanics	\$10.73	\$17.21	\$12.77	\$17.40	\$21.77



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
11-9011	Farm, Ranch, and Other Agricultural Managers	\$12.11	\$21.16	\$13.60	\$17.85	\$26.87
45-0000	Farming, Fishing, and Forestry Occupations	\$6.75*	\$8.03	\$6.75*	\$7.13	\$9.23
45-9099	Farming, Fishing, and Forestry Workers, All Other	\$8.37	\$10.22	\$8.84	\$9.69	\$10.53
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	\$6.75*	\$7.30	\$6.75*	\$6.92	\$7.77
45-2093	Farmworkers, Farm and Ranch Animals	\$6.75*	\$6.99	\$6.75*	\$6.91	\$7.81
43-4071	File Clerks	\$7.76	\$11.04	\$8.42	\$9.96	\$12.61
13-2051	Financial Analysts	\$18.78	\$27.11	\$21.32	\$25.43	\$34.58
13-2061	Financial Examiners	\$19.89	\$30.18	\$20.85	\$26.00	\$36.71
11-3031	Financial Managers	\$21.74	\$35.22	\$23.61	\$33.90	\$43.84
13-2099	Financial Specialists, All Other	\$15.90	\$22.40	\$17.67	\$20.97	\$25.48
33-2011	Fire Fighters	\$8.50	\$15.50	\$9.76	\$14.67	\$22.43
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	\$19.65	\$26.62	\$21.03	\$25.07	\$30.33
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	\$9.91	\$17.67	\$10.70	\$14.82	\$22.82
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	\$17.43	\$28.70	\$18.90	\$24.99	\$32.47
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	\$8.99	\$12.60	\$9.84	\$12.26	\$14.51
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	\$14.16	\$21.35	\$16.66	\$20.80	\$25.21
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	\$9.48	\$14.98	\$10.84	\$14.15	\$17.47
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	\$12.12	\$17.78	\$13.56	\$16.22	\$22.79

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	\$15.64	\$23.71	\$17.72	\$23.67	\$29.14
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	\$18.17	\$30.32	\$20.68	\$27.51	\$36.27
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	\$13.72	\$19.99	\$15.48	\$18.75	\$23.42
39-1021	First-Line Supervisors/Managers of Personal Service Workers	\$10.02	\$17.72	\$11.27	\$16.82	\$20.69
33-1012	First-Line Supervisors/Managers of Police and Detectives	\$24.15	\$30.74	\$25.67	\$28.92	\$36.04
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	\$13.43	\$22.02	\$15.78	\$20.79	\$27.87
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	\$9.61	\$17.32	\$11.11	\$14.30	\$19.77
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle	\$17.07	\$24.79	\$19.69	\$24.08	\$28.79
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	\$15.26	\$24.82	\$18.68	\$25.22	\$29.56
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	\$10.73	\$18.69	\$11.04	\$18.05	\$25.55
27-1023	Floral Designers	\$10.69	\$12.19	\$11.45	\$12.42	\$13.45
51-3092	Food Batchmakers	\$7.63	\$14.07	\$8.29	\$12.87	\$18.73
51-3093	Food Cooking Machine Operators and Tenders	\$7.94	\$9.68	\$7.83	\$8.61	\$10.23
35-9099	Food Preparation and Serving Related Workers, All Other	\$9.73	\$12.09	\$10.09	\$11.42	\$13.75
35-0000	Food Preparation and Serving-Related Occupations	\$6.75*	\$8.22	\$6.75*	\$7.56	\$8.81
35-2021	Food Preparation Workers	\$6.98	\$8.66	\$7.28	\$8.29	\$9.97
11-9051	Food Service Managers	\$14.50	\$22.02	\$16.40	\$20.06	\$30.18
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	\$12.29	\$15.81	\$13.00	\$14.97	\$17.44
51-4071	Foundry Mold and Coremakers	\$9.87	\$12.41	\$11.57	\$12.71	\$13.87



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-4021	Funeral Attendants	\$9.92	\$11.71	\$9.98	\$11.10	\$13.09
11-9061	Funeral Directors	\$17.77	\$19.61	\$18.32	\$19.86	\$21.39
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	\$8.67	\$12.67	\$9.66	\$12.54	\$15.68
51-7021	Furniture Finishers	\$9.58	\$14.81	\$10.90	\$13.54	\$18.63
11-1021	General and Operations Managers	\$18.68	\$37.12	\$22.91	\$34.69	\$48.37
19-4041	Geological and Petroleum Technicians	\$12.67	\$15.09	\$14.59	\$15.74	\$16.89
47-2121	Glaziers	\$11.00	\$15.28	\$12.08	\$15.15	\$18.33
45-2041	Graders and Sorters, Agricultural Products	\$6.75*	\$6.99	\$6.75*	\$6.75*	\$7.63
27-1024	Graphic Designers	\$9.39	\$14.34	\$10.27	\$13.40	\$18.14
51-9022	Grinding and Polishing Workers, Hand	\$7.13	\$11.32	\$7.91	\$11.11	\$14.06
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Me	\$9.73	\$11.84	\$11.00	\$12.05	\$13.19
39-5012	Hairdressers, Hairstylists, and Cosmetologists	\$6.87	\$9.24	\$7.38	\$9.43	\$10.81
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	\$18.42	\$24.24	\$21.10	\$25.30	\$28.27
29-1199	Health Diagnosing and Treating Practitioners, All Other	\$18.21	\$37.66	\$23.17	\$32.72	\$52.34
21-1091	Health Educators	\$12.98	\$19.51	\$14.30	\$16.43	\$26.68
29-0000	Healthcare Practitioners and Technical Occupations	\$15.27	\$28.06	\$18.18	\$25.19	\$32.24
31-0000	Healthcare Support Occupations	\$8.18	\$10.69	\$8.96	\$10.26	\$12.02
31-9099	Healthcare Support Workers, All Other	\$9.30	\$12.81	\$9.96	\$11.50	\$13.64
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	\$13.02	\$17.90	\$14.28	\$18.10	\$21.05



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
47-3019	Helpers, Construction Trades, All Other	\$8.74	\$12.03	\$9.42	\$11.51	\$15.17
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	\$11.03	\$13.96	\$13.33	\$14.93	\$16.17
47-3012	Helpers--Carpenters	\$7.99	\$9.17	\$7.96	\$8.77	\$10.33
47-3013	Helpers--Electricians	\$9.62	\$12.32	\$10.64	\$12.39	\$13.83
49-9098	Helpers--Installation, Maintenance, and Repair Workers	\$7.68	\$10.95	\$8.68	\$10.25	\$12.63
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	\$10.23	\$14.15	\$11.47	\$15.53	\$16.83
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	\$10.24	\$13.43	\$11.25	\$13.03	\$15.04
51-9198	Helpers--Production Workers	\$7.12	\$10.81	\$7.53	\$8.96	\$12.15
47-3016	Helpers--Roofers	\$11.63	\$14.16	\$13.47	\$14.91	\$16.15
47-4051	Highway Maintenance Workers	\$14.11	\$21.07	\$15.61	\$18.17	\$29.77
49-9031	Home Appliance Repairers	\$8.98	\$18.09	\$10.39	\$14.41	\$20.80
31-1011	Home Health Aides	\$6.97	\$9.14	\$7.27	\$8.44	\$10.35
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	\$6.75*	\$6.86	\$6.75*	\$6.79	\$7.58
43-4081	Hotel, Motel, and Resort Desk Clerks	\$6.75*	\$7.45	\$6.76	\$7.30	\$8.12
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	\$11.21	\$15.95	\$12.59	\$15.69	\$19.33
11-3040	Human Resources Managers	\$18.14	\$29.18	\$21.81	\$28.47	\$36.10
17-3026	Industrial Engineering Technicians	\$16.19	\$24.35	\$18.81	\$23.54	\$31.24
17-2112	Industrial Engineers	\$7.66	\$20.40	\$8.02	\$22.82	\$28.95
49-9041	Industrial Machinery Mechanics	\$18.47	\$20.65	\$19.10	\$20.72	\$22.42
11-3051	Industrial Production Managers	\$21.28	\$31.17	\$24.61	\$30.66	\$38.24

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53-7051	Industrial Truck and Tractor Operators	\$9.94	\$14.78	\$11.04	\$14.53	\$17.99
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	\$9.14	\$14.97	\$10.03	\$14.54	\$19.17
49-0000	Installation, Maintenance, and Repair Occupations	\$10.63	\$17.74	\$12.55	\$17.58	\$22.33
49-9099	Installation, Maintenance, and Repair Workers, All Other	\$12.51	\$19.04	\$14.41	\$19.04	\$22.89
47-2130	Insulation Workers	\$11.32	\$19.82	\$12.88	\$23.28	\$26.13
43-9041	Insurance Claims and Policy Processing Clerks	\$9.63	\$13.30	\$10.46	\$12.50	\$15.28
41-3021	Insurance Sales Agents	\$14.93	\$36.07	\$17.39	\$30.21	\$52.78
13-2053	Insurance Underwriters	\$13.76	\$21.83	\$14.88	\$19.12	\$24.17
27-1025	Interior Designers	\$13.15	\$23.75	\$15.54	\$19.46	\$32.35
29-1063	Internists, General	\$21.15	\$41.22	\$21.16	\$37.03	\$58.46
43-4111	Interviewers, Except Eligibility and Loan	\$9.93	\$13.51	\$10.17	\$11.74	\$14.34
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	\$6.75*	\$9.62	\$7.12	\$8.60	\$11.39
51-5021	Job Printers	\$10.04	\$12.25	\$10.81	\$12.37	\$13.65
25-2012	Kindergarten Teachers, Except Special Education	(2)	(2)	(2)	(2)	(2)
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	\$7.05	\$12.44	\$7.77	\$10.52	\$18.35
37-3011	Landscaping and Groundskeeping Workers	\$7.12	\$10.38	\$7.49	\$9.21	\$12.39
51-6011	Laundry and Dry-Cleaning Workers	\$7.32	\$8.70	\$7.48	\$8.28	\$9.76
23-1011	Lawyers	\$27.45	\$38.08	\$31.84	\$39.51	\$44.07
23-0000	Legal Occupations	\$19.46	\$32.99	\$23.27	\$32.09	\$42.41
43-6012	Legal Secretaries	\$16.38	\$18.63	\$17.04	\$18.80	\$20.74

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
11-1031	Legislators	\$18.75	\$25.78	\$19.58	\$21.62	\$24.67
25-4021	Librarians	\$12.25	\$23.46	\$12.87	\$22.75	\$34.97
25-4031	Library Technicians	\$10.64	\$13.70	\$11.96	\$13.60	\$15.74
29-2061	Licensed Practical and Licensed Vocational Nurses	\$14.85	\$17.42	\$15.38	\$17.09	\$19.56
19-0000	Life, Physical, and Social Science Occupations	\$12.47	\$22.14	\$14.76	\$20.73	\$28.10
43-4131	Loan Interviewers and Clerks	\$10.93	\$15.23	\$11.69	\$14.29	\$16.97
13-2072	Loan Officers	\$16.46	\$27.23	\$18.41	\$22.12	\$33.16
49-9094	Locksmiths and Safe Repairers	\$12.33	\$18.71	\$14.29	\$19.53	\$23.40
11-9081	Lodging Managers	\$12.10	\$15.45	\$12.30	\$13.73	\$19.89
53-7063	Machine Feeders and Offbearers	\$9.11	\$13.35	\$10.28	\$13.86	\$16.21
51-4041	Machinists	\$8.02	\$15.22	\$8.38	\$15.13	\$20.23
37-2012	Maids and Housekeeping Cleaners	\$6.75*	\$9.20	\$7.02	\$8.41	\$11.22
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	\$7.84	\$10.43	\$8.09	\$9.66	\$11.84
49-9042	Maintenance and Repair Workers, General	\$10.67	\$17.07	\$12.59	\$17.15	\$21.74
49-9043	Maintenance Workers, Machinery	\$11.15	\$17.95	\$13.68	\$18.10	\$21.84
13-1111	Management Analysts	\$17.75	\$27.46	\$20.79	\$25.88	\$29.62
11-0000	Management Occupations	\$18.38	\$34.55	\$22.04	\$32.29	\$44.15
11-9199	Managers, All Other	\$18.40	\$29.67	\$21.62	\$29.09	\$37.37
19-3021	Market Research Analysts	\$10.83	\$24.53	\$12.35	\$19.67	\$30.01
11-2021	Marketing Managers	\$19.30	\$33.16	\$22.01	\$30.96	\$42.12



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
21-1013	Marriage and Family Therapists	\$14.47	\$22.13	\$17.25	\$23.93	\$26.99
53-7199	Material Moving Workers, All Other	\$7.83	\$11.87	\$7.98	\$9.04	\$15.49
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	\$9.87	\$13.58	\$11.53	\$13.28	\$16.29
17-3013	Mechanical Drafters	\$10.00	\$15.47	\$10.96	\$14.28	\$18.96
17-2141	Mechanical Engineers	\$21.04	\$29.01	\$23.10	\$29.41	\$34.44
27-3099	Media and Communication Workers, All Other	\$8.54	\$18.10	\$9.08	\$14.16	\$21.50
29-2012	Medical and Clinical Laboratory Technicians	\$10.64	\$16.36	\$11.38	\$14.60	\$22.64
29-2011	Medical and Clinical Laboratory Technologists	\$19.03	\$25.70	\$22.93	\$26.45	\$30.89
11-9111	Medical and Health Services Managers	\$22.93	\$34.58	\$28.23	\$35.72	\$42.33
21-1022	Medical and Public Health Social Workers	\$12.54	\$20.08	\$15.47	\$19.72	\$23.96
31-9092	Medical Assistants	\$9.20	\$11.16	\$9.45	\$10.60	\$12.71
31-9093	Medical Equipment Preparers	\$9.85	\$11.55	\$9.97	\$11.18	\$12.87
29-2071	Medical Records and Health Information Technicians	\$9.73	\$12.88	\$10.15	\$11.84	\$15.02
43-6013	Medical Secretaries	\$8.51	\$10.97	\$9.38	\$11.27	\$12.72
31-9094	Medical Transcriptionists	\$12.52	\$14.83	\$13.21	\$14.95	\$16.52
13-1121	Meeting and Convention Planners	\$12.91	\$15.22	\$13.13	\$14.71	\$16.94
21-1014	Mental Health Counselors	\$12.37	\$15.91	\$13.24	\$15.27	\$17.77
27-1026	Merchandise Displayers and Window Trimmers	\$8.97	\$12.49	\$9.18	\$10.35	\$12.59
49-9044	Millwrights	\$11.68	\$18.32	\$13.93	\$19.15	\$23.34
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	\$9.34	\$12.73	\$9.68	\$10.95	\$16.00

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$15.96	\$20.97	\$17.75	\$20.72	\$23.94
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plasti	\$8.25	\$11.10	\$8.75	\$10.41	\$12.56
39-3021	Motion Picture Projectionists	\$6.75*	\$11.29	\$6.93	\$10.18	\$14.67
53-3099	Motor Vehicle Operators, All Other	\$8.76	\$12.97	\$9.32	\$11.00	\$17.70
49-3051	Motorboat Mechanics	\$10.50	\$15.03	\$12.04	\$14.85	\$17.09
49-3052	Motorcycle Mechanics	\$11.77	\$15.52	\$12.37	\$14.53	\$17.78
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	\$9.79	\$14.58	\$11.73	\$15.01	\$17.28
27-2041	Music Directors and Composers	(2)	(2)	(2)	(2)	(2)
11-9121	Natural Sciences Managers	\$13.68	\$34.46	\$21.73	\$33.69	\$47.19
15-1071	Network and Computer Systems Administrators	\$14.96	\$22.28	\$16.36	\$20.58	\$26.37
15-1081	Network Systems and Data Communications Analysts	\$12.06	\$21.95	\$13.89	\$21.68	\$27.20
43-4141	New Accounts Clerks	\$9.77	\$13.28	\$9.98	\$11.81	\$16.35
39-2021	Nonfarm Animal Caretakers	\$6.75*	\$8.72	\$6.75*	\$7.90	\$10.15
29-2033	Nuclear Medicine Technologists	\$24.17	\$25.54	\$23.92	\$25.67	\$27.42
31-1012	Nursing Aides, Orderlies, and Attendants	\$8.01	\$9.73	\$8.69	\$9.80	\$10.87
29-9010	Occupational Health and Safety Specialists and Technicians	\$13.66	\$21.72	\$15.17	\$20.21	\$29.03
29-1122	Occupational Therapists	\$24.46	\$29.29	\$25.46	\$28.99	\$33.31
43-0000	Office and Administrative Support Occupations	\$8.51	\$13.36	\$9.56	\$12.47	\$16.33
43-9061	Office Clerks, General	\$7.60	\$11.02	\$8.57	\$10.73	\$13.21



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
43-9071	Office Machine Operators, Except Computer	\$6.75*	\$12.39	\$6.75*	\$11.85	\$15.74
47-2073	Operating Engineers and Other Construction Equipment Operators	\$14.34	\$23.63	\$17.99	\$22.77	\$31.92
29-2081	Opticians, Dispensing	\$12.01	\$14.38	\$12.31	\$13.79	\$16.19
43-4151	Order Clerks	\$7.55	\$11.78	\$8.28	\$10.88	\$14.78
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	\$10.22	\$14.05	\$11.08	\$13.21	\$16.29
51-9111	Packaging and Filling Machine Operators and Tenders	\$7.53	\$12.81	\$8.33	\$11.55	\$16.35
53-7064	Packers and Packagers, Hand	\$6.75*	\$8.85	\$6.75*	\$7.42	\$9.36
47-2141	Painters, Construction and Maintenance	\$9.17	\$13.19	\$9.80	\$12.27	\$15.90
51-9122	Painters, Transportation Equipment	\$10.77	\$15.61	\$11.51	\$15.42	\$18.24
23-2011	Paralegals and Legal Assistants	\$14.05	\$20.05	\$15.99	\$20.45	\$23.38
41-2022	Parts Salespersons	\$10.07	\$14.97	\$11.25	\$14.14	\$17.86
47-2071	Paving, Surfacing, and Tamping Equipment Operators	\$14.69	\$21.12	\$16.06	\$19.24	\$22.12
43-3051	Payroll and Timekeeping Clerks	\$11.09	\$15.20	\$12.21	\$14.73	\$17.28
29-1065	Pediatricians, General	\$43.93	\$48.81	\$47.16	\$50.70	\$54.23
39-9021	Personal and Home Care Aides	\$7.17	\$8.94	\$7.57	\$8.68	\$10.28
39-0000	Personal Care and Service Occupations	\$6.88	\$10.43	\$7.33	\$8.96	\$11.37
13-2052	Personal Financial Advisors	\$24.05	\$35.51	\$25.28	\$28.88	\$38.64
37-2021	Pest Control Workers	\$9.83	\$16.44	\$11.14	\$17.43	\$20.98
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	\$6.75*	\$9.12	\$7.09	\$8.62	\$11.59
29-1051	Pharmacists	\$25.40	\$37.66	\$35.55	\$41.04	\$45.71



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
31-9095	Pharmacy Aides	\$7.81	\$11.00	\$8.50	\$10.82	\$13.39
29-2052	Pharmacy Technicians	\$11.60	\$15.10	\$12.14	\$13.92	\$16.47
27-4021	Photographers	\$7.07	\$11.17	\$7.50	\$8.48	\$15.27
51-9131	Photographic Process Workers	\$7.90	\$11.14	\$8.32	\$9.87	\$13.35
31-2022	Physical Therapist Aides	\$8.56	\$10.48	\$8.93	\$9.94	\$10.91
31-2021	Physical Therapist Assistants	\$15.32	\$19.80	\$17.28	\$19.88	\$22.09
29-1123	Physical Therapists	\$24.36	\$29.96	\$25.05	\$28.35	\$33.49
47-2151	Pipelayers	\$16.53	\$19.90	\$17.55	\$20.12	\$22.21
51-8099	Plant and System Operators, All Other	\$6.75*	\$16.78	\$6.81	\$18.62	\$21.94
47-2161	Plasterers and Stucco Masons	\$12.11	\$15.12	\$12.66	\$14.12	\$16.45
47-2152	Plumbers, Pipefitters, and Steamfitters	\$12.83	\$21.00	\$15.02	\$19.72	\$26.74
33-3051	Police and Sheriff's Patrol Officers	\$21.28	\$25.59	\$23.54	\$26.15	\$28.76
43-5031	Police, Fire, and Ambulance Dispatchers	\$14.49	\$18.29	\$15.15	\$18.32	\$20.98
51-4052	Pourers and Casters, Metal	\$8.53	\$11.35	\$9.11	\$11.51	\$13.51
51-8013	Power Plant Operators	\$20.94	\$25.77	\$22.19	\$26.04	\$29.81
49-9069	Precision Instrument and Equipment Repairers, All Other	\$20.23	\$22.90	\$19.66	\$21.25	\$22.83
51-5022	Prepress Technicians and Workers	\$10.24	\$14.42	\$11.33	\$13.75	\$17.66
25-2011	Preschool Teachers, Except Special Education	\$8.01	\$11.85	\$8.48	\$10.16	\$14.13
51-6021	Pressers, Textile, Garment, and Related Materials	\$7.69	\$8.25	\$7.70	\$8.27	\$8.86
51-5023	Printing Machine Operators	\$11.35	\$17.47	\$13.15	\$18.60	\$21.27

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
33-9021	Private Detectives and Investigators	\$7.72	\$10.97	\$7.95	\$9.63	\$13.30
43-3061	Procurement Clerks	\$12.92	\$16.00	\$14.15	\$15.90	\$18.13
27-2012	Producers and Directors	(2)	(2)	(2)	(2)	(2)
51-0000	Production Occupations	\$8.18	\$13.84	\$8.95	\$12.41	\$17.49
51-9199	Production Workers, All Other	\$6.75*	\$11.89	\$6.89	\$11.62	\$16.19
43-5061	Production, Planning, and Expediting Clerks	\$6.75*	\$14.83	\$7.02	\$13.89	\$20.07
43-9081	Proofreaders and Copy Markers	\$8.98	\$9.87	\$9.06	\$9.75	\$10.50
11-9141	Property, Real Estate, and Community Association Managers	\$6.75*	\$13.61	\$6.82	\$11.40	\$15.78
33-0000	Protective Service Occupations	\$8.05	\$18.31	\$8.81	\$19.28	\$25.76
29-2053	Psychiatric Technicians	\$16.88	\$18.99	\$17.96	\$19.50	\$21.05
29-1066	Psychiatrists	\$43.42	\$58.04	\$58.46	\$58.46	\$58.97
11-2031	Public Relations Managers	\$18.67	\$33.25	\$20.52	\$28.02	\$49.46
27-3031	Public Relations Specialists	\$12.56	\$20.60	\$15.01	\$20.33	\$25.56
13-1021	Purchasing Agents and Buyers, Farm Products	\$16.53	\$24.00	\$19.65	\$24.42	\$28.16
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	\$15.06	\$23.02	\$17.06	\$21.38	\$28.53
11-3061	Purchasing Managers	\$20.56	\$32.33	\$23.91	\$29.02	\$40.46
29-2034	Radiologic Technologists and Technicians	\$16.79	\$20.85	\$18.36	\$20.91	\$23.85
43-4171	Receptionists and Information Clerks	\$7.52	\$10.60	\$8.36	\$10.16	\$12.24
39-9032	Recreation Workers	\$6.83	\$10.22	\$7.24	\$9.28	\$10.97
29-1125	Recreational Therapists	\$11.63	\$16.51	\$12.54	\$14.16	\$22.24



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
49-3092	Recreational Vehicle Service Technicians	\$10.76	\$16.36	\$12.64	\$15.63	\$20.15
53-7081	Refuse and Recyclable Material Collectors	\$11.51	\$15.37	\$14.21	\$15.93	\$17.50
29-1111	Registered Nurses	\$23.64	\$28.06	\$24.54	\$27.53	\$30.84
21-1015	Rehabilitation Counselors	\$7.10	\$9.85	\$8.07	\$9.68	\$10.77
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	\$9.97	\$14.28	\$11.80	\$14.96	\$16.75
39-9041	Residential Advisors	\$7.08	\$11.52	\$8.06	\$10.84	\$15.56
29-1126	Respiratory Therapists	\$16.97	\$19.89	\$17.74	\$19.89	\$21.97
41-2031	Retail Salespersons	\$6.75*	\$10.74	\$7.11	\$8.29	\$11.00
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	\$13.33	\$16.52	\$14.65	\$16.60	\$19.53
47-2181	Roofers	\$13.11	\$17.21	\$14.67	\$17.36	\$20.24
41-0000	Sales and Related Occupations	\$6.90	\$13.90	\$7.33	\$9.56	\$16.90
41-9031	Sales Engineers	\$24.09	\$30.94	\$25.02	\$27.94	\$34.52
11-2022	Sales Managers	\$22.58	\$36.50	\$24.94	\$33.60	\$44.90
41-3099	Sales Representatives, Services, All Other	\$11.45	\$22.37	\$14.88	\$20.65	\$27.03
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	\$12.43	\$22.61	\$14.88	\$20.75	\$27.30
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	\$16.34	\$25.53	\$18.03	\$21.29	\$29.38
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	\$8.86	\$10.93	\$9.48	\$10.79	\$12.35
25-2031	Secondary School Teachers, Except Special and Vocational Education	(2)	(2)	(2)	(2)	(2)
43-6014	Secretaries, Except Legal, Medical, and Executive	\$8.60	\$12.53	\$9.68	\$12.14	\$15.51



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
41-3031	Securities, Commodities, and Financial Services Sales Agents	\$13.56	\$27.21	\$15.94	\$21.62	\$33.89
49-2098	Security and Fire Alarm Systems Installers	\$10.36	\$17.27	\$11.25	\$16.57	\$21.77
33-9032	Security Guards	\$7.11	\$9.49	\$7.38	\$8.26	\$10.23
25-3021	Self-Enrichment Education Teachers	\$9.53	\$15.14	\$11.03	\$14.75	\$17.20
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and	\$13.97	\$18.54	\$14.83	\$16.86	\$20.41
53-6031	Service Station Attendants	\$7.47	\$8.97	\$7.80	\$8.92	\$9.98
51-6031	Sewing Machine Operators	\$6.95	\$8.59	\$7.44	\$8.45	\$9.82
47-2211	Sheet Metal Workers	\$13.21	\$21.20	\$15.54	\$20.55	\$25.64
43-5071	Shipping, Receiving, and Traffic Clerks	\$8.50	\$13.24	\$9.47	\$13.00	\$16.43
51-6041	Shoe and Leather Workers and Repairers	\$7.80	\$10.67	\$8.44	\$10.35	\$12.79
11-9151	Social and Community Service Managers	\$12.29	\$22.16	\$13.61	\$19.04	\$26.96
21-1093	Social and Human Service Assistants	\$9.89	\$15.50	\$11.25	\$14.11	\$18.62
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	(2)	(2)	(2)	(2)	(2)
29-1127	Speech-Language Pathologists	\$19.88	\$27.28	\$21.35	\$27.05	\$31.69
43-5081	Stock Clerks and Order Fillers	\$6.94	\$10.16	\$7.40	\$8.83	\$12.01
51-2041	Structural Metal Fabricators and Fitters	\$11.31	\$16.00	\$13.19	\$16.35	\$18.40
21-1011	Substance Abuse and Behavioral Disorder Counselors	\$12.09	\$14.99	\$12.45	\$13.84	\$16.78
29-1067	Surgeons	\$53.92	(3)	\$60.10	\$68.33	>\$70.00
29-2055	Surgical Technologists	\$11.84	\$14.90	\$12.53	\$14.53	\$17.14

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-3031	Surveying and Mapping Technicians	\$14.88	\$22.63	\$16.96	\$22.39	\$29.49
17-1022	Surveyors	\$19.32	\$26.80	\$22.54	\$27.24	\$32.38
43-2011	Switchboard Operators, Including Answering Service	\$8.42	\$11.06	\$9.10	\$10.84	\$13.09
53-7121	Tank Car, Truck, and Ship Loaders	\$10.60	\$14.01	\$11.24	\$13.24	\$16.75
47-2082	Tapers	\$14.91	\$19.06	\$15.61	\$18.02	\$22.13
13-2081	Tax Examiners, Collectors, and Revenue Agents	\$20.00	\$26.62	\$22.42	\$26.29	\$31.48
53-3041	Taxi Drivers and Chauffeurs	\$9.01	\$11.09	\$9.42	\$10.45	\$11.85
25-9041	Teacher Assistants	(2)	(2)	(2)	(2)	(2)
51-2092	Team Assemblers	\$8.11	\$11.73	\$8.63	\$10.47	\$13.57
27-3042	Technical Writers	\$7.66	\$14.54	\$8.07	\$9.68	\$14.51
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	\$19.66	\$23.67	\$21.69	\$24.63	\$26.84
49-9052	Telecommunications Line Installers and Repairers	\$16.03	\$21.45	\$18.62	\$22.82	\$25.42
43-3071	Tellers	\$8.44	\$10.25	\$8.92	\$9.97	\$11.03
47-2044	Tile and Marble Setters	\$12.79	\$14.39	\$12.54	\$13.65	\$15.33
49-3093	Tire Repairers and Changers	\$7.83	\$8.90	\$7.86	\$8.62	\$9.50
23-2093	Title Examiners, Abstractors, and Searchers	\$17.01	\$25.22	\$20.07	\$24.92	\$28.26
51-4111	Tool and Die Makers	\$12.48	\$20.64	\$15.56	\$22.58	\$25.63
51-4194	Tool Grinders, Filers, and Sharpeners	\$8.65	\$11.73	\$9.14	\$11.73	\$13.81
39-6021	Tour Guides and Escorts	\$8.41	\$12.27	\$8.93	\$10.63	\$14.47
13-1073	Training and Development Specialists	\$12.78	\$20.49	\$15.48	\$20.21	\$24.94



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
53-0000	Transportation and Material Moving Occupations	\$7.53	\$13.96	\$8.49	\$12.97	\$18.10
53-6051	Transportation Inspectors	\$12.75	\$23.10	\$14.09	\$17.91	\$37.22
11-3071	Transportation, Storage, and Distribution Managers	\$19.41	\$28.61	\$21.09	\$27.62	\$35.30
41-3041	Travel Agents	\$8.23	\$13.44	\$9.20	\$12.27	\$15.80
37-3013	Tree Trimmers and Pruners	\$8.19	\$9.84	\$8.23	\$9.09	\$10.50
53-3032	Truck Drivers, Heavy and Tractor-Trailer	\$11.10	\$17.50	\$12.56	\$15.65	\$21.33
53-3033	Truck Drivers, Light or Delivery Services	\$8.00	\$12.73	\$9.14	\$12.48	\$16.16
51-6093	Upholsterers	\$8.54	\$10.25	\$8.88	\$10.00	\$11.31
19-3051	Urban and Regional Planners	\$17.56	\$23.43	\$18.34	\$21.74	\$27.30
39-3031	Ushers, Lobby Attendants, and Ticket Takers	\$6.75*	\$8.43	\$6.75*	\$6.95	\$11.46
29-1131	Veterinarians	\$19.36	\$37.43	\$21.72	\$38.05	\$51.60
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	\$6.75*	\$7.26	\$6.75*	\$7.05	\$8.10
29-2056	Veterinary Technologists and Technicians	\$7.51	\$11.22	\$8.01	\$10.34	\$14.50
25-1194	Vocational Education Teachers, Postsecondary	\$11.08	\$16.19	\$12.40	\$15.78	\$20.21
25-2032	Vocational Education Teachers, Secondary School	(2)	(2)	(2)	(2)	(2)
35-3031	Waiters and Waitresses	\$6.75*	\$6.75*	\$6.75*	\$6.75*	\$7.27
51-8031	Water and Liquid Waste Treatment Plant and System Operators	\$17.13	\$22.61	\$18.84	\$23.51	\$26.53
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	\$8.67	\$12.86	\$9.61	\$12.56	\$15.80
51-4121	Welders, Cutters, Solderers, and Brazers	\$10.56	\$14.88	\$11.55	\$14.38	\$17.19
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	\$13.62	\$15.08	\$14.32	\$15.43	\$16.53



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-1022	Wholesale and Retail Buyers, Except Farm Products	\$12.30	\$20.87	\$14.04	\$16.65	\$23.92
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	\$7.46	\$9.77	\$7.72	\$8.94	\$11.51
43-9022	Word Processors and Typists	\$8.44	\$13.70	\$9.58	\$12.97	\$17.01
27-3043	Writers and Authors	\$8.65	\$20.28	\$8.98	\$21.74	\$29.73

#### Data

- (1) The mean of the first third of the wage distribution is provided as a proxy for entry-level wage
- (2) For some occupations, workers may not work full-time all year-round. For these occupations it is not feasible to calculate an hourly wage.
- (3) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey), the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well.
- (4) An estimate of employment could not be provided.
- (5) The "Mean Relative Standard Error" is a measure of the relative precision of the wage estimate. A low number denotes relatively high validity.
- \* The survey reference date was in the fourth quarter of 2001, when the California minimum wage was \$6.25 per hour. Since these wages were updated to 2002, and the minimum wage changed to \$6.75 per hour on January 1, 2002, wages below \$6.75 were set to \$6.75 per hour.

**Source:** Employment Development Department  
Labor Market Information Division  
(916) 262-2162

# *Projections & Planning Information*

## **Module F:**

# **Social & Economic Data**





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# Introduction To Social And Economic Data Tables

The data for the Social and Economic Data Tables were developed from a variety of sources to aid local organizations in identifying target group needs and in making appropriate resource allocations for employment and training activities.

Terms expressed in these tables are those commonly used by the U.S. Department of Commerce, the Bureau of the Census and the various state agencies which supplied the data. (The specified source of the data is noted at the bottom of each table.) To aid users of this publication, these terms are defined in the *Explanation of Terms and Concepts* section at the back of this packet.

## Automated Access

Electronic access to current data is available through the Employment Development Department's Internet address at:

**[www.calmis.ca.gov](http://www.calmis.ca.gov)**

For technical assistance or additional information about the Employment Development Department's Labor Market Information Division Internet website, please call (916) 262-2162 or FAX (916) 262-2443 to order other publications.





**TABLE 1**  
**PUBLIC ASSISTANCE RECIPIENTS BY PROGRAM**  
**2000 - 2002**  
**SAN JOAQUIN COUNTY**

Recipients by Program	July			CALIFORNIA
	2000	2001	2002	July 2002
California Work Opportunity and Responsibility To Kids (CalWORKs) (a) .....	40,867	37,627	34,115	1,331,704
Adults .....	9,206	8,461	7,326	297,063
Children .....	31,661	29,166	26,789	1,034,641
Food Stamps (b) .....	40,024	37,556	36,717	1,529,445
General Relief (c) .....	1,078	1,095	1,109	95,718
Refugee Cash Assistance (d) .....	1	11	1	1,362
Welfare to Work (e) .....	9,954	8,186	5,850	266,670

Source: California Department of Social Services

To access detailed reports for county comparisons, visit the California Department of Social Services Internet address at: <http://www.dss.cahwnet.gov/research>

CalWORKs: see report CA 237; Food Stamps: see report DFA 256;

General Relief: see report GR 237; Welfare to Work: see reports WTW 25 and WTW 25A.

(a) Data include foster care children.

(b) Includes those persons receiving public assistance payments and those not receiving public assistance payments.

(c) General Relief data for July 2001 were not available. Data provided are for March 2001.

(d) Refugee Cash Assistance data are for the third quarter and exclude CalWORKs recipients.

(e) With the passage of the Federal Personal Responsibility and Work Opportunity Act of 1996 and California's subsequent implementation of the California Work Opportunity and Responsibility to Kids Act (CalWORKs), the requirement for recipients of aid to participate in work related activities increased significantly. This number represents the number of CalWORKs recipients who have been enrolled or have been sent a notice to participate in Welfare to Work activities. These individuals may be required to participate or be willing to participate in these activities.

**TABLE 2**  
**PUBLIC ASSISTANCE RECIPIENTS (CalWORKs)\***  
**CHARACTERISTICS OF RECIPIENTS 16 YEARS AND OLDER**  
**2000 - 2002**  
**SAN JOAQUIN COUNTY**

Characteristics	July			CALIFORNIA July 2002
	2000	2001	2002	
Total Recipients 16+ (a) (b) .....	14,150	13,030	11,810	461,210
Male .....	2,710	2,490	2,260	88,310
Female .....	11,440	10,540	9,550	373,040
16-20 .....	2,990	2,750	2,490	97,300
21-44 .....	10,080	9,290	8,420	328,710
45-54 .....	860	800	720	28,150
55+ .....	220	200	180	7,200
White (Not Hispanic) .....	4,340	3,840	3,370	113,140
Black (Not Hispanic) .....	2,740	2,680	2,430	101,960
Hispanic .....	4,200	3,960	3,720	206,470
Asian & Pacific Islander .....	2,630	2,340	2,070	33,350
American Indian .....	90	90	100	3,290
Filipino .....	150	120	130	3,000

\* (CalWORKs) California Work Opportunity And Responsibility To Kids

Source: California Department of Social Services; U.S. Department of Commerce, Bureau of the Census; Detailed data by sex, age, and race/ethnicity are extrapolations based on aggregate figures provided by the Department of Social Services.

To access the detailed report for county comparisons, visit the California Department of Social Services Internet address at: <http://www.dss.cahwnet.gov/research>  
See report ABCD 350.

(a) Includes children in Two Parent, Zero Parent, All Others and Foster Care cases.

(b) Detail may not add to total due to independent rounding.



**TABLE 3**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1999 - 2006**  
**SAN JOAQUIN COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	MEAN ANNUAL WAGE	MEDIAN HOURLY WAGE (3)
		1999(2)	2006				
49023	CASHIERS	4,340	5,390	1,050	24.2	\$18,300	\$7.80
49011	SALESPERSONS, RETAIL	5,920	6,940	1,020	17.2	\$22,348	\$8.29
97102	TRUCK DRIVERS, HEAVY	4,650	5,530	880	18.9	\$36,391	\$15.65
19005	GENERAL MANAGERS, TOP EXECUTIVES	4,010	4,780	770	19.2	(4)	(4)
55347	GENERAL OFFICE CLERKS	3,940	4,700	760	19.3	\$22,921	\$10.73
31308	TEACHERS—SECONDARY SCHOOL	2,690	3,370	680	25.3	\$49,514	(5)
98902	HAND PACKERS AND PACKAGERS	1,780	2,390	610	34.3	\$18,409	\$7.42
31305	TEACHERS—ELEMENTARY SCHOOL	3,330	3,900	570	17.1	\$45,967	(5)
87102	CARPENTERS	1,480	2,050	570	38.5	\$43,500	\$20.62
63047	GUARDS AND WATCH GUARDS	1,250	1,810	560	44.8	\$19,755	\$8.26
97105	TRUCK DRIVERS, LIGHT	2,020	2,520	500	24.8	\$26,488	\$12.48
41002	FIRST-LINE SUP/MGR—SALES	2,240	2,720	480	21.4	(6)	(6)
31521	TEACHER AIDES, PARAPROFESSIONAL	1,400	1,860	460	32.9	(7)	(7)
65008	WAITERS AND WAITRESSES	2,490	2,940	450	18.1	\$14,050	\$6.75*
67005	JANITORS, CLEANERS—EXCEPT MAIDS	2,850	3,300	450	15.8	\$19,996	\$8.60
32502	REGISTERED NURSES	2,810	3,250	440	15.7	\$58,368	\$27.53
79041	LABORERS, LANDSCAPING/GROUNDSKEE	2,040	2,450	410	20.1	\$21,590	\$9.21
51002	FIRST-LINE SUP/MGR, CLERK, ADM SUP	2,390	2,780	390	16.3	\$41,595	\$18.75
65041	COMBINED FOOD PREP AND SERVICE	2,350	2,740	390	16.6	\$15,453	\$7.37
55305	RECEPTIONISTS, INFORMATION CLERKS	2,050	2,410	360	17.6	\$22,059	\$10.16

Source: Employment Development Department, Labor Market Information Division,  
Information Services Group and Occupational Employment Statistics Group

(1) Occupational Projections and OES Wages available online at [www.calmis.ca.gov](http://www.calmis.ca.gov)

(2) March 2001 Benchmark

(3) Median Hourly Wage is for the Stockton-Lodi Metropolitan Statistical Area (MSA), which includes  
San Joaquin County.

(4) General Managers, Top Executives - Include the following Occupations:

Chief Executives, SOC Code 11-1011, Mean Annual Wage See (4a) - Median Hourly Wage \$56.25;

Farm, Ranch and Other Agricultural Managers, SOC Code 11-9011, Mean Annual Wage \$44,024 - Median Hourly Wage \$17.85;

Sales Managers, SOC Code 11-2022, Mean Annual Wage \$75,901 - Median Hourly Wage \$33.60;

Gaming Managers, SOC Code 11-9071, Mean Annual Wage \$79,733 - Median Hourly Wage \$35.15

(4a) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey),  
the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well.

(5) For some occupations, workers may not work full-time all year-round. For these occupations it is not  
feasible to calculate an hourly wage.

(6) First Line Supervisor / Manager Sales - Includes the following Occupations:

First-Line Supervisors / Managers of Retail Sales Workers, SOC 41-1011, Mean Annual Wage \$36,037 - Median Hourly Wage \$14.30;

First-Line Supervisors / Managers of Non-Retail Sales Workers, SOC 41-1012, Mean Annual Wage \$63,072 - Median Hourly Wage \$27.51

(7) Teacher Aides, Paraprofessional - Include the following Occupations:

Teacher Assistants, SOC Code 25-9041, Mean Annual Wage \$23,877 - Median Hourly Wage See (5)

Education, Training, and Library Workers, All Other, SOC Code 25-9199, Mean Annual Wage \$30,184 - Median Hourly Wage \$13.02

\* The survey reference date was in the fourth quarter of 2001, when the California minimum wage was \$6.25 per hour. Since these wages were  
updated to 2002, and the minimum wage changed to \$6.75 per hour on January 1, 2002, wages below \$6.75 were set to \$6.75 per hour.

**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 1 — San Diego Metropolitan Statistical Area**

<b>San Diego</b>							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
<b>70% LLSIL (a)</b>							
Annual	\$8,450	\$13,850	\$19,010	\$23,460	\$27,690	\$32,380	\$4,690
6 Months	\$4,225	\$6,925	\$9,505	\$11,730	\$13,845	\$16,190	\$2,345
100%	\$12,070	\$19,780	\$27,150	\$33,510	\$39,550	\$46,250	\$6,700
<b>Poverty Guidelines (a)</b>							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**Table 2 — Los Angeles/Riverside/Orange County Metropolitan Statistical Area**

Anaheim	Los Angeles County					San Bernardino County	
Carson/Lomita/Torrance	Orange County					SELACO	
Foothill	Riverside County					South Bay	
Long Beach	Santa Ana					Ventura	
Los Angeles City	San Bernardino City					Verdugo	
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,900	\$12,940	\$17,770	\$21,930	\$25,880	\$30,270	\$4,390
6 Months	\$3,950	\$6,470	\$8,885	\$10,965	\$12,940	\$15,135	\$2,195
100%	\$11,280	\$18,490	\$25,380	\$31,330	\$36,970	\$43,240	\$6,270
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540



**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 3 — San Francisco/Oakland/San Jose Metropolitan Statistical Area**

Alameda	Oakland			Santa Cruz			
Contra Costa	Richmond			Solano			
Marin	San Francisco			Sonoma			
Napa	San Jose						
NOVA	San Mateo						
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$8,570	\$14,040	\$19,270	\$23,790	\$28,080	\$32,840	\$4,760
6 Months	\$4,285	\$7,020	\$9,635	\$11,895	\$14,040	\$16,420	\$2,380
100%	\$12,240	\$20,060	\$27,540	\$33,990	\$40,110	\$46,910	\$6,800
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**Table 4 — Other Metropolitan Areas**

Fresno		NoRTEC				Stanislaus	
Golden Sierra		North Central				Tulare	
Kern/Inyo/Mono		Sacramento				Yolo	
Merced		San Joaquin					
Monterey		Santa Barbara					
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,820	\$12,810	\$17,580	\$21,700	\$25,610	\$29,950	\$4,340
6 Months	\$3,910	\$6,405	\$8,790	\$10,850	\$12,805	\$14,975	\$2,170
100%	\$11,160	\$18,290	\$25,110	\$30,990	\$36,570	\$42,770	\$6,200
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540



**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 5 — Nonmetropolitan Areas**

Humboldt		Mother Lode					
Imperial		San Benito					
Kings		San Luis Obispo					
Madera							
Mendocino							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,560	\$12,390	\$17,010	\$20,990	\$24,770	\$28,970	\$4,200
6 Months	\$3,780	\$6,195	\$8,505	\$10,495	\$12,385	\$14,485	\$2,100
100%	\$10,800	\$17,690	\$24,290	\$29,980	\$35,380	\$41,380	\$6,000
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

Source: State of California, Workforce Investment Division, Workforce Investment Act Directive,  
Number: WIAD01-18, Dated June 11, 2002.

(a) Tables 1 through 5 show the 70 percent LLSIL and the poverty guidelines for western metropolitan and nonmetropolitan areas, and for three specific Metropolitan Statistical Areas in California. In addition, each LLSIL table includes the 100 percent LLSIL that establishes the Department of Labor's minimum self-sufficiency levels. Each table specifies which areas encompass which Local Workforce Investment Area (LWIA). For a family of one, in all tables, the poverty guidelines exceed the 70 percent LLSIL and, therefore, should be used to establish the low-income status. For all other family sizes, the LLSILs exceed the poverty guidelines. The last column in each table shows the amount to be added to the figure for a family of six for each additional family member.

**TABLE 5**  
**WORKFORCE INVESTMENT ACT**  
**PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS**  
**SELECTED CHARACTERISTICS BY AGE**

LWIA NAME: SAN JOAQUIN COUNTY  
 JURISDICTIONS INCLUDED: SAN JOAQUIN COUNTY

JANUARY 10, 2003

**CHARACTERISTICS OF VARIOUS POTENTIAL CLIENT GROUPS**

<b>LABOR FORCE STATUS (1)</b>	
EMPLOYED	245,733
UNEMPLOYED	26,244
UNEMPLOYMENT RATE	9.6
NOT IN LABOR FORCE (2)	164,375
<b>2002 VETERAN INFORMATION</b>	
TOTAL VETERANS (3)	36,987
MALE	35,116
FEMALE	1,871
VIETNAM ERA VETERANS - CENSUS 2000 (4)	13,859
DISABLED VETERANS (5)	3,603
OFFENDERS (6)	20,632
% OF PEOPLE IN POVERTY: SAN JOAQUIN COUNTY, 1998 (7)	17.6

**1990 CENSUS (8)**

FAMILIES IN POVERTY AS A % OF ALL FAMILIES 12.0

**CHARACTERISTICS OF ECONOMICALLY DISADVANTAGED PERSONS 14 TO 72 YEARS OLD (9)**

	14 - 15 (10)		16 - 21		22 - 54		55 - 72		Total 16 - 72	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
TOTAL ECONOMIC DISADVANT	3,539	100.0	9,487	100.0	34,326	100.0	7,064	100.0	50,877	100.0
<b>BY RACE:</b>										
WHITE NOT HISPANIC	828	23.4	2,844	30.0	11,170	32.5	3,951	55.9	17,965	35.3
BLACK NOT HISPANIC	468	13.2	729	7.7	3,502	10.2	761	10.8	4,992	9.8
AMERICAN INDIAN NOT HISP	59	1.7	231	2.4	586	1.7	69	1.0	886	1.7
ASIAN NOT HISPANIC	1,041	29.4	2,404	25.3	6,529	19.0	793	11.2	9,726	19.1
PACIFIC ISLAND NOT HISP	26	0.7	39	0.4	61	0.2	0	0	100	0.2
HISPANIC	1,117	31.6	3,240	34.1	12,478	36.4	1,490	21.1	17,208	33.8
<b>BY SEX:</b>										
MALE	2,158	61.0	4,639	48.9	15,530	45.2	2,938	41.6	23,107	45.4
FEMALE	1,381	39.0	4,848	51.1	18,796	54.8	4,126	58.4	27,770	54.6
<b>HIGH SCHOOL EXPERIENCE:</b>										
DROPOUTS	230	6.5	2,305	24.3	17,568	51.2	4,384	62.1	24,257	47.7
GRADUATES	0	0	359	3.8	6,155	17.9	1,184	16.8	7,698	15.1
STUDENTS	1,366	38.6	3,917	41.3	966	2.8	68	1.0	4,951	9.7
DISABLED	209	5.9	800	8.4	6,692	19.5	3,070	43.5	10,562	20.8
LIMITED ENGLISH PROF	380	10.7	1,162	12.2	8,558	24.9	1,118	15.8	10,838	21.3

**TABLE 5**  
**WORKFORCE INVESTMENT ACT**  
**PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS**  
**SELECTED CHARACTERISTICS BY AGE**

Footnotes and data sources:

Source: Employment Development Department, Labor Market Information Division,  
Current Economic Statistics Group.

Note: Data provided are the most recent available.

- (1) Labor force in this category refers to civilian labor force (16 years and older). This category includes, but is not limited to, the economically disadvantaged. Labor Force data are based on preliminary data (monthly average) for the period 12/2001 through 11/2002. March 2001 Benchmark.
- (2) Not in labor force (16 years and older) are those who are not employed and not actively seeking employment. This category includes, but is not limited to, the economically disadvantaged. Not in labor force data are based on preliminary labor force data (12/01 - 11/02), Department of Finance populations estimates as of 1/02 and working age populations from 1990 census data.
- (3) Department of Veterans Affairs, Office of the Actuary, Estimated Veteran Totals, September 30, 2002, Washington, D.C.
- (4) U.S. Census Bureau, Census 2000, American FactFinder.
- (5) Department of Veterans Affairs, Statistics for Veterans Receiving Compensation and Pension Benefits, February 14, 2002, Washington, D.C.
- (6) 2001 Criminal Justice Profile, California Department of Justice.
- (7) U.S. Census Bureau. County Estimates for People of All Ages in Poverty by County: California 1998 (Estimates model 1998 income reported in the March 1999 Current Population Survey.)
- (8) Based on poverty data from the 1990 census. The 2000 census data will not be available until 2005. The economically disadvantaged population was provided by the Employment and Training Administration from a custom tabulation provided by the United States Bureau of Census.
- (9) Data for each characteristic in this section were derived by an independent estimating process using census summary data and census public use micro sample. Totals may not match other data from the same sources.
- (10) Data are not included in **Total 16 - 72** column.



**Table DP-1. Profile of General Demographic Characteristics: 2000**

Geographic Area: San Joaquin County, California

[For information on confidentiality protection, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>Total population.....</b>	<b>563,598</b>	<b>100.0</b>	<b>HISPANIC OR LATINO AND RACE</b>		
<b>SEX AND AGE</b>			<b>Total population.....</b>	<b>563,598</b>	<b>100.0</b>
Male.....	281,627	50.0	Hispanic or Latino (of any race).....	172,073	30.5
Female.....	281,971	50.0	Mexican.....	144,220	25.6
Under 5 years.....	44,960	8.0	Puerto Rican.....	2,770	0.5
5 to 9 years.....	50,511	9.0	Cuban.....	385	0.1
10 to 14 years.....	49,896	8.9	Other Hispanic or Latino.....	24,698	4.4
15 to 19 years.....	47,915	8.5	Not Hispanic or Latino.....	391,525	69.5
20 to 24 years.....	37,668	6.7	White alone.....	267,002	47.4
25 to 34 years.....	75,540	13.4	<b>RELATIONSHIP</b>		
35 to 44 years.....	86,601	15.4	<b>Total population.....</b>	<b>563,598</b>	<b>100.0</b>
45 to 54 years.....	68,748	12.2	In households.....	544,827	96.7
55 to 59 years.....	23,689	4.2	Householder.....	181,629	32.2
60 to 64 years.....	18,271	3.2	Spouse.....	98,604	17.5
65 to 74 years.....	30,673	5.4	Child.....	192,304	34.1
75 to 84 years.....	21,619	3.8	Own child under 18 years.....	151,304	26.8
85 years and over.....	7,507	1.3	Other relatives.....	43,105	7.6
Median age (years).....	31.9	(X)	Under 18 years.....	17,490	3.1
18 years and over.....	389,029	69.0	Nonrelatives.....	29,185	5.2
Male.....	191,715	34.0	Unmarried partner.....	11,375	2.0
Female.....	197,314	35.0	In group quarters.....	18,771	3.3
21 years and over.....	361,762	64.2	Institutionalized population.....	11,312	2.0
62 years and over.....	70,263	12.5	Noninstitutionalized population.....	7,459	1.3
65 years and over.....	59,799	10.6	<b>HOUSEHOLD BY TYPE</b>		
Male.....	25,274	4.5	<b>Total households.....</b>	<b>181,629</b>	<b>100.0</b>
Female.....	34,525	6.1	Family households (families).....	134,708	74.2
<b>RACE</b>			With own children under 18 years.....	73,626	40.5
One race.....	529,524	94.0	Married-couple family.....	98,604	54.3
White.....	327,607	58.1	With own children under 18 years.....	51,718	28.5
Black or African American.....	37,689	6.7	Female householder, no husband present.....	25,467	14.0
American Indian and Alaska Native.....	6,377	1.1	With own children under 18 years.....	15,959	8.8
Asian.....	64,283	11.4	Nonfamily households.....	46,921	25.8
Asian Indian.....	5,111	0.9	Householder living alone.....	37,650	20.7
Chinese.....	5,478	1.0	Householder 65 years and over.....	15,219	8.4
Filipino.....	21,650	3.8	Households with individuals under 18 years.....	82,308	45.3
Japanese.....	3,153	0.6	Households with individuals 65 years and over ..	42,161	23.2
Korean.....	796	0.1	Average household size.....	3.00	(X)
Vietnamese.....	6,032	1.1	Average family size.....	3.48	(X)
Other Asian <sup>1</sup> .....	22,063	3.9	<b>HOUSING OCCUPANCY</b>		
Native Hawaiian and Other Pacific Islander.....	1,955	0.3	<b>Total housing units.....</b>	<b>189,160</b>	<b>100.0</b>
Native Hawaiian.....	459	0.1	Occupied housing units.....	181,629	96.0
Guamanian or Chamorro.....	417	0.1	Vacant housing units.....	7,531	4.0
Samoan.....	408	0.1	For seasonal, recreational, or		
Other Pacific Islander <sup>2</sup> .....	671	0.1	occasional use.....	616	0.3
Some other race.....	91,613	16.3	Homeowner vacancy rate (percent).....	1.2	(X)
Two or more races.....	34,074	6.0	Rental vacancy rate (percent).....	3.8	(X)
<b>Race alone or in combination with one</b>			<b>HOUSING TENURE</b>		
<b>or more other races: <sup>3</sup></b>			<b>Occupied housing units.....</b>	<b>181,629</b>	<b>100.0</b>
White.....	353,443	62.7	Owner-occupied housing units.....	109,667	60.4
Black or African American.....	42,459	7.5	Renter-occupied housing units.....	71,962	39.6
American Indian and Alaska Native.....	13,070	2.3	Average household size of owner-occupied units.....	2.96	(X)
Asian.....	76,656	13.6	Average household size of renter-occupied units.....	3.06	(X)
Native Hawaiian and Other Pacific Islander.....	4,588	0.8			
Some other race.....	109,993	19.5			

- Represents zero or rounds to zero. (X) Not applicable.

<sup>1</sup> Other Asian alone, or two or more Asian categories.<sup>2</sup> Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.<sup>3</sup> In combination with one or more of the other races listed. The six numbers may add to more than the total population and the six percentages may add to more than 100 percent because individuals may report more than one race.

Source: U.S. Census Bureau, Census 2000.

**Table DP-2. Profile of Selected Social Characteristics: 2000**

Geographic area: San Joaquin County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>SCHOOL ENROLLMENT</b>			<b>NATIVITY AND PLACE OF BIRTH</b>		
Population 3 years and over enrolled in school .....	176,188	100.0	Total population .....	563,598	100.0
Nursery school, preschool .....	9,245	5.2	Native .....	453,786	80.5
Kindergarten .....	9,916	5.6	Born in United States .....	449,075	79.7
Elementary school (grades 1-8) .....	82,511	46.8	State of residence .....	342,645	60.8
High school (grades 9-12) .....	41,429	23.5	Different state .....	106,430	18.9
College or graduate school .....	33,087	18.8	Born outside United States .....	4,711	0.8
<b>EDUCATIONAL ATTAINMENT</b>			Foreign born .....	109,812	19.5
Population 25 years and over .....	333,572	100.0	Entered 1990 to March 2000 .....	40,725	7.2
Less than 9th grade .....	44,400	13.3	Naturalized citizen .....	39,437	7.0
9th to 12th grade, no diploma .....	51,553	15.5	Not a citizen .....	70,375	12.5
High school graduate (includes equivalency) .....	84,162	25.2	<b>REGION OF BIRTH OF FOREIGN BORN</b>		
Some college, no degree .....	79,592	23.9	Total (excluding born at sea) .....	109,812	100.0
Associate degree .....	25,397	7.6	Europe .....	6,385	5.8
Bachelor's degree .....	33,876	10.2	Asia .....	40,444	36.8
Graduate or professional degree .....	14,592	4.4	Africa .....	763	0.7
Percent high school graduate or higher .....	71.2	(X)	Oceania .....	1,016	0.9
Percent bachelor's degree or higher .....	14.5	(X)	Latin America .....	59,864	54.5
<b>MARITAL STATUS</b>			Northern America .....	1,340	1.2
Population 15 years and over .....	418,168	100.0	<b>LANGUAGE SPOKEN AT HOME</b>		
Never married .....	108,992	26.1	Population 5 years and over .....	519,445	100.0
Now married, except separated .....	234,413	56.1	English only .....	344,240	66.3
Separated .....	9,721	2.3	Language other than English .....	175,205	33.7
Widowed .....	25,499	6.1	Speak English less than "very well" .....	90,178	17.4
Female .....	20,498	4.9	Spanish .....	110,158	21.2
Divorced .....	39,543	9.5	Speak English less than "very well" .....	56,753	10.9
Female .....	22,890	5.5	Other Indo-European languages .....	18,000	3.5
<b>GRANDPARENTS AS CAREGIVERS</b>			Speak English less than "very well" .....	6,406	1.2
Grandparent living in household with one or more own grandchildren under 18 years .....	16,757	100.0	Asian and Pacific Island languages .....	45,066	8.7
Grandparent responsible for grandchildren .....	6,666	39.8	Speak English less than "very well" .....	26,407	5.1
<b>VETERAN STATUS</b>			<b>ANCESTRY (single or multiple)</b>		
Civilian population 18 years and over ..	389,156	100.0	Total population .....	563,598	100.0
Civilian veterans .....	44,426	11.4	Total ancestries reported .....	575,856	102.2
<b>DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION</b>			Arab .....	2,568	0.5
Population 5 to 20 years .....	154,868	100.0	Czech <sup>1</sup> .....	1,409	0.3
With a disability .....	12,020	7.8	Danish .....	3,124	0.6
Population 21 to 64 years .....	296,375	100.0	Dutch .....	9,928	1.8
With a disability .....	69,947	23.6	English .....	36,104	6.4
Percent employed .....	50.6	(X)	French (except Basque) <sup>1</sup> .....	11,551	2.0
No disability .....	226,428	76.4	French Canadian <sup>1</sup> .....	1,841	0.3
Percent employed .....	70.7	(X)	German .....	62,890	11.2
Population 65 years and over .....	56,724	100.0	Greek .....	2,244	0.4
With a disability .....	26,689	47.1	Hungarian .....	994	0.2
<b>RESIDENCE IN 1995</b>			Irish <sup>1</sup> .....	41,253	7.3
Population 5 years and over .....	519,445	100.0	Italian .....	28,138	5.0
Same house in 1995 .....	265,918	51.2	Lithuanian .....	290	0.1
Different house in the U.S. in 1995 .....	237,699	45.8	Norwegian .....	7,281	1.3
Same county .....	151,108	29.1	Polish .....	3,805	0.7
Different county .....	86,591	16.7	Portuguese .....	16,641	3.0
Same state .....	71,847	13.8	Russian .....	2,052	0.4
Different state .....	14,744	2.8	Scotch-Irish .....	5,989	1.1
Elsewhere in 1995 .....	15,828	3.0	Scottish .....	7,324	1.3
			Slovak .....	214	-
			Subsaharan African .....	2,529	0.4
			Swedish .....	6,866	1.2
			Swiss .....	1,983	0.4
			Ukrainian .....	460	0.1
			United States or American .....	19,338	3.4
			Welsh .....	2,540	0.5
			West Indian (excluding Hispanic groups) .....	424	0.1
			Other ancestries .....	296,076	52.5

-Represents zero or rounds to zero. (X) Not applicable.

<sup>1</sup>The data represent a combination of two ancestries shown separately in Summary File 3. Czech includes Czechoslovakian. French includes Alsatian. French Canadian includes Acadian/Cajun. Irish includes Celtic.

Source: U.S. Bureau of the Census, Census 2000.



Geographic area: San Joaquin County, California

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-Represents zero or rounds to zero. (X) Not applicable.  
<sup>1</sup>If the denominator of a mean value or per capita value is less than 30, then that value is calculated using a rounded aggregate in the numerator. See text.  
 Source: U.S. Bureau of the Census, Census 2000.

3



**Table DP-4. Profile of Selected Housing Characteristics: 2000**

Geographic area: San Joaquin County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>Total housing units.....</b>	<b>189,160</b>	<b>100.0</b>	<b>OCCUPANTS PER ROOM</b>		
<b>UNITS IN STRUCTURE</b>			<b>Occupied housing units .....</b>	<b>181,629</b>	<b>100.0</b>
1-unit, detached.....	129,289	68.3	1.00 or less.....	156,206	86.0
1-unit, attached.....	11,223	5.9	1.01 to 1.50.....	11,986	6.6
2 units.....	4,975	2.6	1.51 or more.....	13,437	7.4
3 or 4 units.....	8,374	4.4			
5 to 9 units.....	6,233	3.3	<b>Specified owner-occupied units .....</b>	<b>96,592</b>	<b>100.0</b>
10 to 19 units.....	4,863	2.6	<b>VALUE</b>		
20 or more units.....	15,014	7.9	Less than \$50,000.....	1,898	2.0
Mobile home.....	8,736	4.6	\$50,000 to \$99,999.....	20,317	21.0
Boat, RV, van, etc.....	453	0.2	\$100,000 to \$149,999.....	30,982	32.1
			\$150,000 to \$199,999.....	20,766	21.5
<b>YEAR STRUCTURE BUILT</b>			\$200,000 to \$299,999.....	16,583	17.2
1999 to March 2000.....	4,794	2.5	\$300,000 to \$499,999.....	4,969	5.1
1995 to 1998.....	11,865	6.3	\$500,000 to \$999,999.....	886	0.9
1990 to 1994.....	16,545	8.7	\$1,000,000 or more.....	191	0.2
1980 to 1989.....	35,828	18.9	Median (dollars).....	142,400	(X)
1970 to 1979.....	39,264	20.8			
1960 to 1969.....	26,294	13.9	<b>MORTGAGE STATUS AND SELECTED</b>		
1940 to 1959.....	39,200	20.7	<b>MONTHLY OWNER COSTS</b>		
1939 or earlier.....	15,370	8.1	With a mortgage.....	75,449	78.1
<b>ROOMS</b>			Less than \$300.....	439	0.5
1 room.....	5,547	2.9	\$300 to \$499.....	2,474	2.6
2 rooms.....	13,754	7.3	\$500 to \$699.....	5,699	5.9
3 rooms.....	22,107	11.7	\$700 to \$999.....	15,479	16.0
4 rooms.....	28,601	15.1	\$1,000 to \$1,499.....	27,075	28.0
5 rooms.....	43,478	23.0	\$1,500 to \$1,999.....	15,843	16.4
6 rooms.....	36,018	19.0	\$2,000 or more.....	8,440	8.7
7 rooms.....	21,390	11.3	Median (dollars).....	1,235	(X)
8 rooms.....	11,519	6.1	Not mortgaged.....	21,143	21.9
9 or more rooms.....	6,746	3.6	Median (dollars).....	273	(X)
Median (rooms).....	5.1	(X)			
<b>Occupied housing units .....</b>	<b>181,629</b>	<b>100.0</b>	<b>SELECTED MONTHLY OWNER COSTS</b>		
<b>YEAR HOUSEHOLDER MOVED INTO UNIT</b>			<b>AS A PERCENTAGE OF HOUSEHOLD</b>		
1999 to March 2000.....	38,866	21.4	<b>INCOME IN 1999</b>		
1995 to 1998.....	55,750	30.7	Less than 15.0 percent.....	27,337	28.3
1990 to 1994.....	30,281	16.7	15.0 to 19.9 percent.....	15,245	15.8
1980 to 1989.....	26,508	14.6	20.0 to 24.9 percent.....	14,136	14.6
1970 to 1979.....	16,014	8.8	25.0 to 29.9 percent.....	11,346	11.7
1969 or earlier.....	14,210	7.8	30.0 to 34.9 percent.....	7,395	7.7
			35.0 percent or more.....	20,376	21.1
<b>VEHICLES AVAILABLE</b>			Not computed.....	757	0.8
None.....	17,247	9.5	<b>Specified renter-occupied units .....</b>	<b>70,789</b>	<b>100.0</b>
1.....	58,417	32.2	<b>GROSS RENT</b>		
2.....	70,436	38.8	Less than \$200.....	1,741	2.5
3 or more.....	35,529	19.6	\$200 to \$299.....	2,688	3.8
			\$300 to \$499.....	14,819	20.9
<b>HOUSE HEATING FUEL</b>			\$500 to \$749.....	29,093	41.1
Utility gas.....	120,162	66.2	\$750 to \$999.....	13,895	19.6
Bottled, tank, or LP gas.....	7,449	4.1	\$1,000 to \$1,499.....	4,670	6.6
Electricity.....	49,227	27.1	\$1,500 or more.....	1,257	1.8
Fuel oil, kerosene, etc.....	262	0.1	No cash rent.....	2,626	3.7
Coal or coke.....	10	-	Median (dollars).....	617	(X)
Wood.....	3,423	1.9			
Solar energy.....	62	-	<b>GROSS RENT AS A PERCENTAGE OF</b>		
Other fuel.....	504	0.3	<b>HOUSEHOLD INCOME IN 1999</b>		
No fuel used.....	530	0.3	Less than 15.0 percent.....	10,397	14.7
			15.0 to 19.9 percent.....	9,658	13.6
<b>SELECTED CHARACTERISTICS</b>			20.0 to 24.9 percent.....	8,769	12.4
Lacking complete plumbing facilities.....	1,173	0.6	25.0 to 29.9 percent.....	7,094	10.0
Lacking complete kitchen facilities.....	1,506	0.8	30.0 to 34.9 percent.....	5,483	7.7
No telephone service.....	3,686	2.0	35.0 percent or more.....	25,280	35.7
			Not computed.....	4,108	5.8

-Represents zero or rounds to zero. (X) Not applicable.

Source: U.S. Bureau of the Census, Census 2000.



# Explanation Of Terms And Concepts

**American Indian and Alaska Native:** A person having origins in any of the original peoples of North and South America (including Central America), and who maintain tribal affiliation or community attachment.

**Asian:** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent.

**Black or African American:** A person having origins in any of the Black racial groups of Africa.

**CalWORKs:** California Work Opportunity and Responsibility to Kids is a state designed public assistance program. Focus is on work and training; those who seek welfare must also seek work. Time and aid limits apply.

**Food Stamp Recipient:** A person receiving food stamp coupons that can be exchanged for groceries.

**General Relief:** A county administered assistance program which includes interim payments to the disabled, and payments to individuals who are ineligible for other assistance programs, such as CalWORKs and Refugee Cash Assistance.

**Hispanic:** Census 2000 adheres to the federal standards for collecting and presenting data on race and Hispanic origin as established by the Office of Management and Budget (OMB) in October 1997. The OMB defines Hispanic or Latino as "a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin regardless of race."

**Native Hawaiian and Other Pacific Islander:** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

**Public Assistance Recipient:** A person receiving cash welfare payments and/or nonmonetary benefits under federal, state, or local welfare programs.

**Refugee Cash Assistance:** A cash assistance and employment services program designed for adults without children who have official status as refugee, and who have been in the United States for less than eight months. Aid is limited to eight months.

**Some Other Race:** Includes all other census responses not included in the "White," "Black or African American," "American Indian and Alaska Native," "Asian," and the "Native Hawaiian and Other Pacific Islander" race categories. Respondents providing write-in entries such as multiracial, mixed, interracial, or a Hispanic/Latino group (for example, Mexican, Puerto Rican, or Cuban) are included in this category.

**Two or More Races:** Refers to a classification of census respondents who chose to provide two or more races.

**Veteran:** A person who has served but is not now serving in the armed forces of the United States.

**Vietnam-Era Veteran:** A person who served between August 5, 1964, and May 7, 1975, but is not now serving in the armed forces of the United States.

**Welfare-To-Work Program:** The Welfare-To-Work Program helps family members acquire the skills needed to get a job. The county will determine if a family must participate in Welfare-To-Work activities as a requirement for CalWORKs. Families may also volunteer to participate.

**White:** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.







# Labor Market Information For Nondiscrimination Programs

## SAN JOAQUIN COUNTY

This report contains 1990 census population, labor force data, and occupational information for use in developing nondiscrimination programs, as required for federal and state contract compliance. The information in this series of reports is presented by county, because a county often constitutes the normal recruiting area for employers. However, separate reports are available for multi-county Metropolitan Statistical Areas (MSAs) and Consolidated Metropolitan Statistical Areas (CMSAs). Employers may wish to combine data for two or more counties, to co-

incide with the particular boundaries of their firm's recruiting area. The occupational groups listed in this report are those most often used in developing nondiscrimination programs (see next page for a comparison with California Department of Fair Employment and Housing's job categories). If more information about specific occupations is needed, the California Department of Finance's State Census Data Center, (916) 323-4086, has an 86-page detailed occupation report available for purchase.

Technical Note: This information is drawn from the 1990 Census of Population and Housing. The population data in Table 1 and the labor force data in Tables 2A, 2B and 2C are from Summary Tape File 4B. The occupational information in Tables 3, 4 and 5 is from the Equal Employment Opportunity (EEO) File.

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Female Labor Force by Occupational Group	Table 4
Labor Force Status: Weeks Worked	Table 2C
Labor Force Status: Work Disability	Table 2B





### Note to Users

The information contained in this publication is general in nature and is provided to assist employers in meeting nondiscrimination obligations. However, this information may not include all of the specific requirements with which federal and state contractors must conform in making a comprehensive utilization analysis. Reference should be made to Code of Federal Regulations, Title 41, Subtitle B, chapter 60, Section 60-2.11 or California Code of Regulations, Title 2, Division 4, Chapter 5 for complete utilization analysis requirements.

Any questions regarding nondiscrimination requirements should be directed to the government agency issuing the contract or:

U.S. Department of Labor

Office of Federal Contract Compliance  
(415) 848-6969

California Department of Fair Employment and Housing

Office of Compliance Programs  
(916) 227-2888

### Note to California Employer Identification Report (CEIR) Respondents

The job categories listed on the California Employer Identification Report (CEIR) differ from the occupational group titles listed in this report (and the EEO file); however, the occupations contained within the job categories are essentially the same as those included in the occupational groups. Therefore, a direct relationship exists between CEIR job categories and occupational groups listed in this report. The following table shows that relationship:

<u>CEIR Category</u>	<u>EDD/EEO Occupational Group</u>
Officials and Managers	Executive, Administrative, and Managerial
Professional	Professional Specialty
Technicians	Technicians and Related Support
Sales	Sales
Office and Clerical	Office/Clerical
Craft Worker	Precision Production, Craft and Repair
Operatives	Machine Operators, Assemblers and Inspectors & Transportation and Material Moving
Laborers	Handlers, Equipment Cleaners, Helpers, Laborers
Service Workers	Services

For further information, contact the California Department of Fair Employment and Housing, Office of Compliance Programs:  
(916) 227-2888.

For additional copies of this publication or other labor market information, contact the Employment Development Department's Labor Market Information Division:  
(916) 262-2162.